
	TYPICAL DATA SHEET*		ISSUE DATE	July-2021
	POLYETHYLENE		WWW.TPCO.IR	
	LL0209AA		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

LL0209AA is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE. Film made from pure LL0209AA has the following advantages over LDPE: better sealing, higher puncture resistance, greater drawdown ability and higher tensile strength. This grade has food contact approval. Applications: green house film, silage film, hand bags and general purpose film applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	0.9
DENSITY	gr/cm ³	ASTM D-1505	0.919
VICAT SOFTENING POINT	°C	ASTM D-1525	105
FILM**			
DART DROP IMPACT	METHOD A GR	ASTM D-1709	140
TENSILE STRESS AT YEILD	MD/TD MPA	ASTM D-882	10/11
TENSILE STRESS AT BREAK	MD/TD MPA	ASTM D-882	41/32
TEAR STRENGTH	MD/TD gr/25μ	ASTM D1922	145/370
ELONGATION AT BREAK	MD/TD %	ASTM D-882	620/840
HAZE	- %	ASTM D-1003	12
GLOSS(45°)	- %°	ASTM D-2457	56

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

**38μm film, 2.5:1 blow up ratio, 225°C melt temperature MD: Machine Direction, TD: Transverse Direction
Grade Suffix (Additives Indication) AA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2021
	POLYETHYLENE	WWW.TPCO.IR	
	LL0209KJ	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


LL0209KJ is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE. Film made from pure LL0209KJ has the following advantages over LDPE: better sealing, higher puncture resistance, greater drawdown ability, easy opening properties at 2 layer film and higher tensile strength. This grade has food contact approval.

Applications: green house film, silage film, hand bags and general purpose film applications.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	0.9
DENSITY		gr/cm ³	ASTM D-1505	0.919
VICAT SOFTENING POINT		°C	ASTM D-1525	105
FILM**				
DART DROP IMPACT	METHOD A	GR	ASTM D-1709	140
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/11
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	41/32
TEAR STRENGTH	MD/TD	gr/25μ	ASTM D1922	145/370
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	620/840
HAZE	-	%	ASTM D-1003	12
GLOSS(45°)	-	%°	ASTM D-2457	56

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

**38μm film, 2.5:1 blow up ratio, 225°C melt temperature MD: Machine Direction, TD: Transverse Direction
 Grade Suffix (Additives Indication) KJ: GENERAL ANTIOXIDANT WITH SLIP AGENT/ANTIBLOCKING AGENTS

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE		WWW.TPCO.IR
	LL0220AA		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612


LL0220AA is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE for casting film applications and blown film for light duty film applications. Film made from pure LL0220AA has the following advantages over LDPE: good balance of mechanical properties, good optical properties. This grade has food contact approval.

Applications: light and medium duty films, stretch film

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	2.4
DENSITY		gr/cm ³	ASTM D-1505	0.921
VICAT SOFTENING POINT		°C	ASTM D-1525	100
FILM**				
DART DROP IMPACT	METHOD A	GR	ASTM D-1709	90
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/11
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	30/25
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	1000/1100
WHITENESS INDEX	-	%	ASTM E-313	50
GLOSS(45°)	-	%°	ASTM D-2457	30

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**38µm blown film with blow up ratio 2:1,225°C melt temperature, MD: Machine Direction, TD: Transverse Direction
Grade Suffix (Additives Indication) AA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE		WWW.TPCO.IR
	LL0220KJ		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612


LL0220KJ is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE for blown film applications. Film made from pure LL0220KJ has the following advantages over LDPE: good balance of mechanical properties, good optical properties and easy opening properties in 2 layer film. This grade has food contact approval.

Applications: light and medium duty films with good optical properties.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	2.4
DENSITY		gr/cm ³	ASTM D-1505	0.921
VICAT SOFTENING POINT		°C	ASTM D-1525	100
FILM**				
DART DROP IMPACT	METHOD A	GR	ASTM D-1709	90
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/11
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	30/25
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	1000/1100
WHITENESS INDEX	-	%	ASTM E-313	50
GLOSS(45°)	-	%°	ASTM D-2457	30

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

**38µm blown film with blow up ratio 2:1, 225°C melt temperature. MD: Machine Direction, TD: Transverse Direction
 Grade Suffix (Additives Indication) KJ: GENERAL ANTIOXIDANT WITH SLIP AGENT/ANTIBLOCKING AGENTS

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	LL0410AA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


LL0410AA is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE. Film made from pure LL0410AA has the following advantages over LDPE: better sealing, lower seal shrinkage, greater drawdown ability and higher stiffness & toughness

Applications: green house film, silage film, hand bags and general purpose film applications.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	0.8
DENSITY		gr/cm ³	ASTM D-1505	0.926
VICAT SOFTENING POINT		°C	ASTM D-1525	107
FILM**				
DART DROP IMPACT	METHOD A	GR	ASTM D-1709	80
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	12/13
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	42/33
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	620/850
HAZE	-	%	ASTM D-1003	12
GLOSS(45°)	-	%°	ASTM D-2457	50

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

**38µm film, 2.5:1 blow up ratio, 225°C melt temperature, MD: Machine Direction, TD: Transverse Direction
Grade Suffix (Additives Indication) AA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*		ISSUE DATE	July-2020
	POLYETHYLENE		WWW.TPCO.IR	
	LL0640AA		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

LL0640AA is linear low density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with conventional LDPE. Film made from pure LL0640AA has the following advantages over LDPE: good balance of mechanical properties, good optical properties.


Applications: hand wrap stretch film, cast stretch film and display packaging.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	4
DENSITY		gr/cm ³	ASTM D-1505	0.930
VICAT SOFTENING POINT		°C	ASTM D-1525	105
FILM**				
DART DROP IMPACT	METHOD A	GR	ASTM D-1709	60
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	10/10
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	32/24
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	750/850
HAZE	-	%	ASTM D-1003	2
GLOSS(45°)	-	%°	ASTM D-2457	87

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications)

**38µm film cast at 75m/min , 240°C melt temperature , MD: Machine Direction, TD: Transverse Direction

Grade Suffix (Additives Indication) AA: GENERAL ANTIOXIDANT


	TYPICAL DATA SHEET*	ISSUE DATE	May-2021
	POLYETHYLENE	WWW.TPCO.IR	
	HD3840UA**	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HD3840UA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for use as rotational molding applications. HD3840UA has the following characteristics: good impact strength, easy to demoulding, UV stabilized, good whiteness, excellent surface finish. This grade has food contact approval.
Applications: general purpose roto molded items, septic tanks, recycling tanks

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	4
DENSITY	gr/cm3	ASTM D-1505	0.938
YELLOWNESS INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	15
ELONGATION AT BREAK	%	ASTM D-638	900
ESCR(IGEPAL10% F50,23°C)	HR	ASTM D-1693	350
FLEXURAL MODULUS	MPA	ISO178-197	650
CHARPY IMPACT	KJ/M2	ASTM D-6110	18

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

** HD3840UA falls into the density range of MDPE. However, in order to observing the nomenclature procedure of PE plant licenser (INEOS), this grade is designated as HDPE; while it can be introduced as MD3840UA as well
Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT AND LIGHT STABLISER


	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE		WWW.TPCO.IR
	HD4005EA		IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612

HD4005EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for use as pipe coating applications. HD4005EA has the following characteristics: good impact strength and chemical resistance, high ESCR. Applications: pipe coating applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	0.5
DENSITY	gr/cm ³	ASTM D-1505	0.940
TENSILE STRESS AT YEILD	MPA	ASTM D-638	17
TENSILE STRESS AT BREAK	MPA	ASTM D-638	26
ELONGATION AT BREAK	%	ASTM D-638	600
O.I.T.	MIN	ASTM D-3895	45
HARDNESS	-	ASTM D-2240	55
MELTING POINT	°C	ASTM D-1525	125
ESCR(IGEPAL 10%,F20)	HR	ASTM D-1693-A	>1000
CHARPY IMPACT STRENGTH	KJ/M ²	ASTM D-6110	NOT BREAK
VICAT SOFTENING POINT	°C	ASTM D-1525	115

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S (Standard Sales Specifications).

Grade Suffix (Additive Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD4440EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD4440EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable as based resin for cross linking polyethylene pipes.HD4440EA has the following characteristics: good impact strength, excellent surface finish. This grade has food contact approval.

Applications: non pressurized pipe with silane technology

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	4
DENSITY	gr/cm3	ASTM D-1505	0.944
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
TENSILE STRESS AT YEILD	MPA	ASTM D-638	18
TENSILE STRESS AT BREAK	MPA	ASTM D-638	23
ELONGATION AT BREAK	%	ASTM D-638	800

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S (Standard Sales Specifications)

Grade Suffix (Additive Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	Apr-2021
	POLYETHYLENE	WWW.TPCO.IR	
	HD5030SA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5030SA is high density polyethylene copolymer containing butene-1(C4) as co monomer with medium content of slip agent additive.HD5030SA has the following characteristics: good impact strength, excellent surface finish, caps with torque free property. This grade has food contact approval.

Applications: caps and closures for packaging with free torque advantage.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	1.8
DENSITY	gr/cm3	ASTM D-1505	0.948
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	112
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	1100
CHARPY IMPACT	KJ/M2	ASTM D-6110	15

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Grade Suffix (Additives Indication): SA: GENERAL ANTIOXIDANT WITH SLIP AGENT

	TYPICAL DATA SHEET*	ISSUE DATE	Apr-2021
	POLYETHYLENE	WWW.TPCO.IR	
	HD5030EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5030EA is high density polyethylene copolymer containing butene-1(C4) as co monomer.HD5030EA has the following characteristics: good impact strength, excellent surface finish. This grade has food contact approval.

Applications: caps and closures for packaging without free torque advantage.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	1.8
DENSITY	gr/cm3	ASTM D-1505	0.948
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	112
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	1100
CHARPY IMPACT	KJ/M2	ASTM D-6110	15

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications).

Grade Suffix (Additives Indication): EA: GENERAL ANTIOXIDANT WITHOUT SLIP AGENT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5211EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5211EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for thin wall injection molding applications. HD5211EA has the following characteristics: high warpage resistance, high flow, fast cycling injection molding.

Applications: general purpose injection molding with indoor applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	11
DENSITY	gr/cm ³	ASTM D-1505	0.952
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	900
CHARPY IMPACT	KJ/M ²	ASTM D-6110	4

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications)

Grade Suffix(Additives Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5218UA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5218UA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for thin wall injection molding applications. HD5218UA has the following characteristics: high warpage resistance, high flow, fast cycling injection molding, UV stabilized. This grade has food contact approval.

Applications: general purpose injection molding with outdoor & indoor applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	18
DENSITY	gr/cm ³	ASTM D-1505	0.952
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	900
CHARPY IMPACT	KJ/M ²	ASTM D-6110	3

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S (Standard Sales Specifications)

Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT AND LIGHT STABILISER

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5218EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5218EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for thin wall injection molding applications. HD5218EA has the following characteristics: high warpage resistance, high flow, fast cycling injection molding. This grade has food contact approval.

Applications: general purpose injection molding with indoor applications.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	18
DENSITY	gr/cm ³	ASTM D-1505	0.952
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	900
CHARPY IMPACT	KJ/M ²	ASTM D-6110	3

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S (Standard Sales Specifications).

Grade Suffix (Additives Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5813EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5813EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for thin wall injection molding applications. HD5813EA has the following characteristics: high warpage resistance, high flow, fast cycling injection molding.

Applications: general purpose injection molding with indoor applications, house ware, aerosol caps.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	13
DENSITY	gr/cm ³	ASTM D-1505	0.958
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	23
ELONGATION AT BREAK	%	ASTM D-638	1000
CHARPY IMPACT	KJ/M ²	ASTM D-6110	2

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Grade Suffix (Additives Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5813UA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5813UA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for thin wall injection molding applications. HD5813UA has the following characteristics: high warpage resistance, high flow, fast cycling injection molding with UV stabilized.

Applications: general purpose injection molding with indoor & outdoor applications, houseware.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	13
DENSITY	gr/cm ³	ASTM D-1505	0.958
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	115
TENSILE STRESS AT YEILD	MPA	ASTM D-638	23
ELONGATION AT BREAK	%	ASTM D-638	1000
CHARPY IMPACT	KJ/M ²	ASTM D-6110	2

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications).

Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT WITH LIGHT STABILISER

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD5406EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD5406EA is high density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for producing of ropes and plastic nets.HD5406EA has the following characteristics: good impact strength, excellent surface finish, good tensile parameters.

Applications: filament, ropes, plastic nets.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	0.6
DENSITY	gr/cm3	ASTM D-1505	0.954
TENSILE STRESS AT YEILD	MPA	ASTM D-638	25
TENSILE STRESS AT BREAK	MPA	ASTM D-638	30
ELONGATION AT YEILD	%	ASTM D-638	7
ELONGATION AT BREAK	%	ASTM D-638	900
IZOD IMPACT	KJ/M2	ASTM D-256	40
WITHENESS INDEX	-	ASTM E-313	50
YELLOW INDEX	-	ASTM E-313	-1
VICAT SOFTENING POINT	°C	ASTM D-1525	120

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications).

Grade Suffix (Additive Indication) EA: GENERAL ANTIOXIDANT


	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD6040UA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HD6040UA is high density polyethylene copolymer containing butene-1(C4) as co monomer with medium content of light stabilizer additive.HD6040UA has the following characteristics: good impact strength, excellent surface finish.

Applications: large dustbins and pails, pallet

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	3.9
DENSITY	gr/cm3	ASTM D-1505	0.960
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	112
TENSILE STRESS AT YEILD	MPA	ASTM D-638	20
ELONGATION AT BREAK	%	ASTM D-638	700
CHARPY IMPACT	KJ/M2	ASTM D-6110	10

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S.(Standard Sales Specifications)
 Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT AND LIGHT STABLISER

	TYPICAL DATA SHEET*	ISSUE DATE	OCT-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD6070UA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD6070UA is high density polyethylene copolymer containing butene-1(C4) as co monomer with medium content of light stabilizer additives. It is suitable for general purpose injection molding items. HD6070UA has the following characteristics: good impact strength, easy processing, high warpage resistance, high rigidity, UV stabilized. This grade has food contact approval.

Applications: crates, boxes, seats.

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	7
DENSITY	gr/cm ³	ASTM D-1505	0.960
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	120
TENSILE STRESS AT YEILD	MPA	ASTM D-638	26
MELTING POINT	°C	ASTM D-2117	132
ELONGATION AT BREAK	%	ASTM D-638	900
FLEXURAL MODULUS	MPA	ISO178-197	1400
CHARPY IMPACT	KJ/M ²	ASTM D-6110	5

* All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (Standard Sales Specifications).

Grade Suffix (Additives Indication) UA: GENERAL ANTIOXIDANT AND LIGHT STABLISER

	TYPICAL DATA SHEET*	ISSUE DATE	OCT-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD6070EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	


HD6070EA is high density polyethylene copolymer containing butene-1(C4) as co monomer with medium content of light stabilizer additive. It is suitable for general purpose injection molding items. HD6070EA has the following characteristics: good impact strength, easy processing, high warpage resistance, high rigidity. This grade has food contact approval.

Applications: crates, boxes, seats

PROPERTY	UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)	g/10min	ASTM D-1238	7
DENSITY	gr/cm ³	ASTM D-1505	0.960
YELLOW INDEX	-	ASTM E-313	-1
WHITENESS INDEX	-	ASTM E-313	60
CONTAMINATION	NO.	BP137	5
VICAT SOFTENING POINT	°C	ASTM D-1525	120
TENSILE STRESS AT YEILD	MPA	ASTM D-638	26
MELTING POINT	°C	ASTM D-2117	132
ELONGATION AT BREAK	%	ASTM D-638	900
FLEXURAL MODULUS	MPA	ISO178-197	1400
CHARPY IMPACT	KJ/M ²	ASTM D-6110	5

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (standard sales specifications)

Grade Suffix (Additives Indication) EA: GENERAL ANTIOXIDANT

	TYPICAL DATA SHEET*	ISSUE DATE	July-2020
	POLYETHYLENE	WWW.TPCO.IR	
	HD3808EA	IRAN/TABRIZ/TABRIZ PETROCHEMICAL COMPANY/P.O.BOX:51745-354/TEL:+984134282612	

HD3808EA is medium density polyethylene copolymer containing butene-1(C4) as co monomer. It is suitable for blending with other conventional HDPE and LDPE film grades. This grade has food contact approval.
Application: green house film, silage film, hand bags, general purpose film applications.

PROPERTY		UNIT	TEST METHOD	TYPICAL VALUE
MELT FLOW INDEX(190°C 2.16KG)		g/10min	ASTM D-1238	0.65
DENSITY		gr/cm ³	ASTM D-1505	0.938
VICAT SOFTENING POINT		°C	ASTM D-1525	122
FILM**				
BALL DROP	METHOD A	GR	ASTM D-1709(A)	50
TENSILE STRESS AT YEILD	MD/TD	MPA	ASTM D-882	16/18
TENSILE STRESS AT BREAK	MD/TD	MPA	ASTM D-882	50/45
ELONGATION AT BREAK	MD/TD	%	ASTM D-882	800/900
GLOSS(45°)		%°	ASTM D-2457	22

*All above mentioned data are typical values and not to be construed as real specifications. Users should confirm results by their own tests. For more information about guaranteed items, please refer to S.S.S. (standard sales specifications)

** : 38µm film, 2.5:1 blow up ratio, 225°C melt temperature, MD: Machine Direction, TD: Transverse Direction.

Grade Suffix (Additive Indication) EA: GENERAL ANTIOXIDANT