

TOTAL Polyethylene HDPE 6420

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 6420 is a high density (MMW) polyethylene material. This product is available in North America or Asia Pacific region. The processing method is: film extrusion.

The main features of TOTAL Polyethylene 6420 are:

Comply with REACH standard

odorless/tasteless channel

High stiffness

Good processability

Typical application areas include:

bag/lining

Movie

General Information			
Features	Low speed solidification crystal point		
	Rigidity, high		
	Workability, good		
	The smell is low to none		
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	Medium molecular weight		
	Barrier resin		
Uses	Films		
	Lining		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.962	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	2.0	g/10 min	ASTM D1238
190°C/21.6 kg	55	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus ¹			ASTM D882A
1% secant, MD: 25 µm, blown film	862	MPa	ASTM D882A
2% secant, MD: 25 µm, blown film	689	MPa	ASTM D882A
1% secant, TD: 25 µm, blown film	883	MPa	ASTM D882A
2% secant, TD: 25 µm, blown film	703	MPa	ASTM D882A
Tensile Strength ²			ASTM D882A
MD: Yield, 25 µm, blown film	26.2	MPa	ASTM D882A

TD: Yield, 25 µm, blown film	27.6	MPa	ASTM D882A
MD: Broken, 25 µm, blown film	51.7	MPa	ASTM D882A
TD: Broken, 25 µm, blown film	23.4	MPa	ASTM D882A
Tensile Elongation ³			ASTM D882A
MD: Broken, 25 µm, blown film	700	%	ASTM D882A
TD: Broken, 25 µm, blown film	700	%	ASTM D882A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, blown film	24	g	ASTM D1922
MD : 51 µm, Coextruded Film ⁴	70	g	ASTM D1922
TD: 25 µm, blown film	390	g	ASTM D1922
TD : 51 µm, Coextruded Film ⁵	500	g	ASTM D1922
Water Vapor Transmission Rate			ASTM F1249
38°C, 25 µm, blown film	3.9	g/m ² /24 hr	ASTM F1249
38°C, 51 µm, Coextruded Film ⁶	2.9	g/m ² /24 hr	ASTM F1249
Extrusion	Nominal Value	Unit	
Melt Temperature	199 - 210	°C	
Extrusion instructions			
Recommended BUR: 2.0 to 3.5Recommended FLH/D: 4.0 to 6.0			
NOTE			
1.	25 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	A/B/B 25/50/25% layer distribution LDPE/6420/6420, 2.5 BUR		
5.	A/B/B 25/50/25% layer distribution LDPE/6420/6420, 2.5 BUR		
6.	A/B/B 25/50/25% layer distribution LDPE/6420/6420, 2.5 BUR		

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