

# TOTAL Polyethylene HDPE 1285

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 1285 is a high density polyethylene material. This product is available in North America and is processed by co-extrusion molding. The main features of TOTAL Polyethylene 1285 are:

Comply with REACH standard

high molecular weight

Good processability

Good tear strength

Impact resistance

Typical application areas include:

bag/lining

Movie

General Information			
Features	High molecular weight		
	Impact resistance, good		
	Workability, good		
	Good tear strength		
Uses	Films		
	Lining		
	Bags		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.070	g/10 min	ASTM D1238
190°C/21.6 kg	9.0	g/10 min	ASTM D1238
190°C/5.0 kg	0.31	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
secant modulus <sup>1</sup>			ASTM D882A
2% secant, MD: 20 µm	841	MPa	ASTM D882A
2% secant, TD: 20 µm	910	MPa	ASTM D882A
Tensile Strength <sup>2</sup>			ASTM D882A
MD: Yield, 20 µm	36.5	MPa	ASTM D882A
TD: Yield, 20 µm	34.5	MPa	ASTM D882A
MD: Break, 20 µm	61.4	MPa	ASTM D882A

TD: Break, 20 µm	58.6	MPa	ASTM D882A
Tensile Elongation <sup>3</sup>			ASTM D882A
MD: Break, 20 µm	300 - 500	%	ASTM D882A
TD: Break, 20 µm	300 - 500	%	ASTM D882A
Dart Drop Impact (20 µm)	350	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 µm	24	g	ASTM D1922
TD : 20 µm	120	g	ASTM D1922
Water Vapor Transmission Rate (38°C, 20 µm)	12	g/m <sup>2</sup> /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	127	°C	DSC
Additional Information			
Film properties produced on 50 mm Alpine extruder with a 4:1 BUR, at 0.8 mil.			
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		

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#### Recommended distributors for this material

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