

TOTAL Polyethylene HDPE 2285

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 2285 is a High Density (HMW) Polyethylene material. It is available in North America for film extrusion.

Important attributes of TOTAL Polyethylene 2285 are:

REACH Compliant

Good Processability

Good Tear Strength

High Molecular Weight

Impact Resistant

Typical applications include:

Bags/Liners

Film

Food Contact Applications

General Information			
Features	Good Processability Good Tear Strength High Impact Resistance High Molecular Weight Med.-Wide Molecular Weight Distrib.		
Uses	Bags Film Food Wrap Liners		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.951	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.080	g/10 min	
190°C/21.6 kg	11	g/10 min	
190°C/5.0 kg	0.32	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Secant Modulus ¹			ASTM D882A
2% Secant, MD : 20 µm, Blown Film	841	MPa	
2% Secant, TD : 20 µm, Blown Film	910	MPa	
Tensile Strength ²			ASTM D882A

MD : Yield,20 μm, Blown Film	36.5	MPa	
TD : Yield,20 μm, Blown Film	34.5	MPa	
MD : Break, 20 μm,Blown Film	63.4	MPa	
TD : Break, 20 μm,Blown Film	67.6	MPa	
Tensile Elongation ³			ASTM D882A
MD : Break, 20 μm,Blown Film	300 to 500	%	
TD : Break, 20 μm,Blown Film	300 to 500	%	
Dart Drop Impact (20 μm, Blown Film)	350	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm, Blown Film	24	g	
TD : 20 μm, Blown Film	120	g	
Water Vapor Transmission Rate (38°C, 20 μm, Blown Film)	12	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	132	°C	ASTM D3417
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		

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