

TOTAL Polyethylene HDPE HL 535

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene HL 535 is a High Density (MMW) Polyethylene material. It is available in North America for coextrusion.

Important attributes of TOTAL Polyethylene HL 535 are:

REACH Compliant

Heat Resistant

High Stiffness

Typical applications include:

Bags/Liners

Film

General Information			
Features	High Heat Resistance		
	High Stiffness		
Uses	Bags		
	Film		
	Liners		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.955	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	30	g/10 min	
Films	Nominal Value	Unit	Test Method
Secant Modulus ¹			ASTM D882A
1% Secant, MD : 25 µm, Blown Film	917	MPa	
1% Secant, TD : 25 µm, Blown Film	1280	MPa	
Tensile Strength ²			ASTM D882A
MD : Yield,25 µm, Blown Film	27.6	MPa	
TD : Yield,25 µm, Blown Film	29.6	MPa	
MD : Break, 25 µm,Blown Film	43.4	MPa	
TD : Break, 25 µm,Blown Film	29.6	MPa	
Tensile Elongation ³			ASTM D882A
MD : Break, 25 µm,Blown Film	500	%	
TD : Break, 25 µm,Blown Film	25	%	
Dart Drop Impact (25 µm, Blown Film)	< 50	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	8.0	g	
TD : 25 µm, Blown Film	1100	g	
Water Vapor Transmission Rate (38°C, 25 µm, Blown Film)			ASTM F1249
	11	g/m ² /24 hr	
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	132	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 216	°C	
NOTE			
1.	25 mm/min		
2.	510 mm/min		
3.	510 mm/min		

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