

TOTAL Polyethylene HDPE 9458

High Density (MMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 9458 is a High Density (MMW) Polyethylene material. It is available in Asia Pacific or North America for coextrusion or film extrusion.

Important attributes of TOTAL Polyethylene 9458 are:

REACH Compliant

Heat Resistant

High Stiffness

High Strength

Typical applications include:

Bags/Liners

Film

Packaging

General Information			
Features	High Heat Resistance		
	High Stiffness		
	High Tensile Strength		
Uses	Bags		
	Film		
	Liners		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Coextrusion		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882A
1% Secant, MD : 25 µm, Blown Film ¹	1050	MPa	
1% Secant, TD : 25 µm, Blown Film ²	1370	MPa	
Tensile Strength ³			ASTM D882A
MD : Yield,25 µm, Blown Film	31.0	MPa	
TD : Yield,25 µm, Blown Film	17.9	MPa	
MD : Break, 25 µm,Blown Film	53.1	MPa	
TD : Break, 25 µm,Blown Film	17.9	MPa	

Tensile Elongation ⁴			ASTM D882A
MD : Break, 25 µm,Blown Film	270	%	
TD : Break, 25 µm,Blown Film	< 10	%	
Dart Drop Impact (25 µm, Blown Film)	< 50	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	15	g	
TD : 25 µm, Blown Film	1100	g	
Water Vapor Transmission Rate (38°C, 25 µm, Blown Film)	11	g/m ² /24 hr	ASTM F1249
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 216	°C	
NOTE			
1.	25 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	510 mm/min		

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