

# TOTAL Polyethylene HDPE 50100.2

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 50100.2 is a high density (HMW) polyethylene material. This product is available in North America and is processed by blow molding.

The main features of TOTAL Polyethylene 50100.2 are:

Comply with REACH standard

high molecular weight

High resistance to environmental stress fracture (ESCR)

accessible food

Good stiffness

Typical application areas include:

food contact applications

packing

industrial applications

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Impact resistance, good		
	Good melt strength		
	Compliance of Food Exposure		
Uses	Industrial application		
	Food packaging		
Agency Ratings	ASTM D 4976-89-PE235		
	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520(c) 2.1		
	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, F50	120	hr	ASTM D1693B
100% Igepal, F50	> 600	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.2	MPa	ASTM D638

Tensile Elongation <sup>2</sup> (Break)	600	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	530	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	127	°C	ASTM D3418
Additional Information			
Blow Molding Stock Temperature: 370 to 450°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 249	°C	
NOTE			
1.	Type 4, 51mm/min		
2.	Type 4, 51mm/min		

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#### Recommended distributors for this material

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