

TOTAL Polyethylene HDPE 50100.1

High Density (HMW) Polyethylene

TOTAL Refining & Chemicals

Message:

TOTAL Polyethylene 50100.1 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 50100.1 are:

- flame retardant/rated flame
- Comply with REACH standard
- high molecular weight
- High resistance to environmental stress fracture (ESCR)
- Good processability
- Typical application areas include:
 - food contact applications
 - packing
 - industrial applications

General Information			
UL YellowCard	E204945-547766		
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Impact resistance, good		
	Workability, good		
	Good melt strength		
	Compliance of Food Exposure		
	Medium hardness		
Uses	Blow molding applications		
	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	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, molded, F50	120	hr	ASTM D1693B
100% Igepal, molded, F50	> 600	hr	ASTM D1693B

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	26.2	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus (Compression Molded)	1210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Compression Molded)	530	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	127	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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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