

Total 5502 HDPE, blow molding, pipe

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Drug Master File listed; USP Class VI approved; FDA compliant; UL 94HB/746 certified

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-5502-HDPE-blow-molding-pipe.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	50 hour	50 hour	Condition B, 100% Igepal, F50; ASTM D1693
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238
High Load Melt Index	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Elongation at Break	600 %	600 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ISO 527
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Tensile Impact Strength	80.0 kJ/m ²	38.1 ft-lb/in ²	Notched, -30°C; ISO 8256
	185 kJ/m ²	88.0 ft-lb/in ²	Notched, 23°C; ISO 8256

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	264 °F	ASTM D3417
Vicat Softening Point	127 °C	261 °F	ISO 306

Descriptive Properties	Value	Comments
Food Approval	This material complies with the main regulations concerning non-toxicity of plastics materials in contact with food stuffs.	

Process Descriptive Properties	Blow Molding Value Pipe Extrusion	Comments
Region	US & Canada	Bamberger Polymers Distribution

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