Total 3802 Blue MDPE pipe, injection molding

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

Material Notes:

FINATHENE® 3802 Blue is a polyethylene copolymer based on C6 hexene as co-monomer and is produced by a continuous low pressure slurry polymerization process. FINATHENE® 3802 Blue is a blue polyethylene specially developed for the manufacture of pressure pipes and fittings. Its well balanced property profile and composition makes FINATHENE® 3802 Blue perfectly suited for potable water distribution.Information provided provided by Total Petrochemicals.Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Total-3802-Blue-MDPE-pipe-injection-molding.php

Physical Properties	Metric	English	Comments
Density	0.941 g/cc	0.0340 lb/in³	ASTM D 792
Viscosity	1.30e+6 cP @Shear Rate 100 1/s, Temperature 190 °C	1.30e+6 cP @Shear Rate 100 1/s, Temperature 374 °F	ATOFINA research test
Environmental Stress Crack Resistance	>= 700 hour	>= 700 hour	ASTM D1693
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	210°C; EN 728
	>= 30 min	>= 30 min	200°C; EN 728
Melt Flow	0.20 g/10 min @Load 2.16 kg	0.20 g/10 min @Load 4.76 lb	ASTM D 1238
	0.92 g/10 min @Load 5.00 kg	0.92 g/10 min @Load 11.0 lb	ASTM D 1238
High Load Melt Index	18 g/10 min @Load 21.6 kg	18 g/10 min @Load 47.6 lb	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
Elongation at Break	>= 700 %	>= 700 %	ISO R527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Modulus of Elasticity	0.700 GPa	102 ksi	ISO 178
Flexural Modulus	0.700 GPa	102 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	>= 1.00 J/cm² @Temperature 23.0 °C	>= 4.76 ft-lb/in² @Temperature 73.4 °F	ISO 170

Thermal Properties	Metric	English	Comments
Heat of Fusion	161 J/g	69.3 BTU/lb	DSC
CTE, linear	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	
Specific Heat Capacity	2.00 J/g-°C	0.478 BTU/lb-°F	DSC
	2.60 J/g-°C @Temperature 150 °C	0.621 BTU/lb-°F @Temperature 302 °F	DSC
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft²-°F	DIN 52612
	0.200 W/m-K @Temperature 150 °C	1.39 BTU-in/hr-ft²-°F @Temperature 302 °F	DIN 52612
Melting Point	125 - 129 °C	257 - 264 °F	crystalline; DSC
Vicat Softening Point	125 °C	257 °F	ISO 306
Brittleness Temperature	-100 °C	-148 °F	ASTM D 746

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+17 ohm-cm	>= 1.00e+17 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	IEC 93
Dielectric Constant	2.45 @Frequency 1000 Hz	2.45 @Frequency 1000 Hz	IEC 250
Dielectric Strength	16.0 kV/mm	406 kV/in	IEC 243
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	IEC 250

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