

Total Xsene® XS10 B HDPE, pipe, injection molding

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

Material Notes:

FINATHENE® XS10 B is a high density polyethylene based on C6 hexene as co-monomer and is produced by the Fina Double Loop Technology™. FINATHENE® XS10 B is a high performance black compound specially developed for potable water and gas distribution applications. 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-Xsene-XS10-B-HDPE-pipe-injection-molding.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ASTM D 792
Viscosity	270000 cP	270000 cP	ATOFINA research test
	@Shear Rate 1000 1/s, Temperature 190 °C	@Shear Rate 1000 1/s, Temperature 374 °F	
	2.10e+6 cP	2.10e+6 cP	ATOFINA research test
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
Oxidative Induction Time (OIT)	>= 20 min	>= 20 min	200°C; EN 728
	>= 20 min	>= 20 min	210°C; EN 728
Carbon Black Loading	2.0 - 2.5 %	2.0 - 2.5 %	ISO 6964
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 5.00 kg	@Load 11.0 lb	
High Load Melt Index	8.0 g/10 min	8.0 g/10 min	ASTM D 1238
	@Load 21.6 kg	@Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	
Elongation at Break	>= 700 %	>= 700 %	ISO 527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Flexural Modulus	1.10 GPa	160 ksi	ISO 178

Thermal Properties	Metric	English	Comments
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-ft ² -°F	DIN 52612
	0.200 W/m-K @Temperature 150 °C	1.39 BTU-in/hr-ft ² -°F @Temperature 302 °F	DIN 52612
Melting Point	130 - 132 °C	266 - 270 °F	crystalline; DSC

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