

Total 3802 YCF MDPE pipe grade

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

Material Notes:

FINATHENE® 3802 Y CF is a polyethylene copolymer based on C6 hexene as co-monomer and is produced by a continuous low pressure slurry polymerization process. FINATHENE® 3802 Y CF is a yellow cadmium free polyethylene specially developed for the manufacture of pressure pipes and fittings and accessories for gas distribution networks. 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-YCF-MDPE-pipe-grade.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D 792
Viscosity	1.30e+6 cP	1.30e+6 cP	ATOFINA research test
	@Shear Rate 100 1/s, Temperature 190 °C	@Shear Rate 100 1/s, Temperature 374 °F	
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	0.20 g/10 min	ASTM D 1238
	@Load 2.16 kg	@Load 4.76 lb	
High Load Melt Index	0.92 g/10 min	0.92 g/10 min	ASTM D 1238
	@Load 5.00 kg	@Load 11.0 lb	
High Load Melt Index	18 g/10 min	18 g/10 min	ASTM D 1238
	@Load 21.6 kg	@Load 47.6 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	DIN 53505
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 Mechanical Properties	0.700 GPa Metric	102 ksi English	ASTM D 790 Comments
Thermal Properties	Metric	English	Comments
Heat of Fusion	160 J/g	68.8 BTU/lb	DSC
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	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+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	IEC 93
Dielectric Constant	2.35	2.35	IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	IEC 243
Dissipation Factor	0.020	0.020	IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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