

Iran Petrochemical (PCC) EX 3 - 80 High Density Polyethylene

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

Material Notes:

EX3-80 is a high density polyethylene with 1-Butene as co monomer. It is natural, good ESCR, good impact strength, tough and rigid pipe resin. Applications: pipe extrusion PE 80 class, industrial and pressure pipe , gas pipe, drinking water pipe, relining , fittings. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-EX-3-80-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	50 hour @Pressure 4.00 MPa	50 hour @Pressure 580 psi	ISO CD 16770
Melt Flow	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
	12 g/10 min @Load 21.6 kg, Temperature 190 °C	12 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Stress	35.0 MPa	5080 psi	at Break; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527
Elongation at Break	>= 850 %	>= 850 %	ISO 527
Elongation at Yield	8.0 %	8.0 %	ISO 527
Tensile Modulus	0.850 GPa	123 ksi	ISO 527
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Softening Point	67.0 °C	153 °F	ISO 306
Brittleness Temperature	>= -80.0 °C	>= -112 °F	ASTM D746-72

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Descriptive Properties			
Flexural Creep Modulus (MPa)	950		4 point, 1 min; DIN 19537-2

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China