

Iran Petrochemical (PCC) EX 2 HF 7750 M High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , HDPE, Fiber Grade

Material Notes:

EX2 is a high density polyethylene with 1-Butene as co monomer. It has good rigidity and medium molar mass. Applications: monofilaments, ropes, yarns. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-EX-2-HF-7750-M-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ISO 1183
Melt Flow	2.5 g/10 min	2.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	25 g/10 min	25 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ISO 868
Tensile Stress	31.0 MPa	4500 psi	at Break; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Elongation at Break	>= 1000 %	>= 1000 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	1.20 GPa	174 ksi	ISO 527
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Softening Point	80.0 °C	176 °F	ISO 306
Brittleness Temperature	>= -80.0 °C	>= -112 °F	ASTM D746-72

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 270 °C	428 - 518 °F	

Descriptive Properties	Value	Comments
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Flexural Creep Modulus (MPa)
Descriptive Properties

1350
Value

4 point, 1 min; DIN 19537-2
Comments

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