

Iran Petrochemical (PCC) EX 1 HF 7740F High Density Polyethylene

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

Material Notes:

EX1 is a high density polyethylene with 1-Butene as co monomer. It has acceptable tear strength, medium molar mass and narrow molar mass distribution. Applications: stretched film and tapes for production of high strength knitted & wovens. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-EX-1-HF-7740F-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/in ³	ISO 1183
Melt Flow	1.8 g/10 min	1.8 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	
	27 g/10 min	27 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 Â°C	@Load 47.6 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ISO 868
Tensile Stress	32.0 MPa	4640 psi	at Break; ISO 527
Tensile Strength, Yield	21.0 MPa	3050 psi	ISO 527
Elongation at Break	>= 1000 %	>= 1000 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	0.800 GPa	116 ksi	ISO 527
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Softening Point	73.0 Â°C	163 Â°F	ISO 306
Brittleness Temperature	>= -80.0 Â°C	>= -112 Â°F	ASTM D746-72

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 280 Â°C	392 - 536 Â°F	

Descriptive Properties	Value	Comments
Flexural Creep Modulus (MPa)	900	4 point, 1 min; DIN 19537-2

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