Iran Petrochemical (PCC) BL2 HF 4750 High Density Polyethylene

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

Material Notes:

BL2 is a high density polyethylene with 1-Butene as co monomer. It is high impact strength and slightly, lower stiffness than BL3, outstanding resistance to stress cracking, even in contact with surfactants.Applications: small blow molding, bottles, containers (up to 5 L), packing of pharmaceuticals & surfactants.Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-BL2-HF-4750-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.944 g/cc	0.0341 lb/inÂ³	ISO 1183
Environmental Stress Crack Resistance	10 hour @Pressure 3.50 MPa	10 hour @Pressure 508 psi	ISO CD 16770
Melt Flow	1.1 g/10 min @Load 5.00 kg, Temperature 190 Â°C	1.1 g/10 min @Load 11.0 lb, Temperature 374 Â°F	ISO 1133
	23 g/10 min @Load 21.6 kg, Temperature 190 Â°C	23 g/10 min @Load 47.6 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Stress	32.0 MPa	4640 psi	at Break; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527
Elongation at Break	>= 600 %	>= 600 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	0.900 GPa	131 ksi	ISO 527
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Softening Point	70.0 Â°C	158 Â°F	ISO 306
Brittleness Temperature	>= -80.0 Â°C	>= -112 Â°F	ASTM D746-72

Processing Properties	Metric	English	Comments

Processing Properties	Metric	English	Comments
Melt Temperature	293 - 380 Â°C	293 - 536 Â°F	

Descriptive Properties	Value	Comments
Flexural Creep Modulus (MPa)	1050	4 point, 1 min; DIN 19537-2
Swell Ratio, %	120	

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