

Iran Petrochemical (PCC) 5218EA High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

HD-5218EA is a high density polyethylene copolymers containing butane-1 as the comonomer with narrow molecular weight distribution, suitable for thin wall injection application. It has been designed for fast cycling application and low warpage with a good balance of toughness and stiffness characteristics. Applications: houseware, thin walled containers, food container, toys, home utensil. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-5218EA-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	52 g/10 min	52 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	900 %	900 %	ASTM D638
Flexural Modulus	1.05 GPa	152 ksi	ASTM D790
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 °C	239 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	131 °C	268 °F	
	180 - 250 °C	356 - 482 °F	

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