

Iran Petrochemical (PCC) 5030UA High Density Polyethylene

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

Material Notes:

HD-5030UA is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection molding application requiring very high environmental stress cracking resistance. Applications: caps & closures for the packaging of sparkling water and carbonated soft drinks, technical parts. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-5030UA-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	30 hour	30 hour	ASTM D1894
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM D638
Elongation at Break	1000 %	1000 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	123 °C	253 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	130 °C	266 °F	

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