Iran Petrochemical (PCC) PC 0712 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Suitable for molding and extrusionInformation provided by Iran Petrochemical Commercial Co.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-PC-0712-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/inÂ³	ASTM D792
Melt Flow	7.0 - 12 g/10 min @Load 1.20 kg, Temperature 300 Â°C	7.0 - 12 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	>= 103 MPa	>= 14900 psi	DIN 53456
Tensile Stress	60.0 - 70.0 MPa	8700 - 10200 psi	ASTM D638
Tensile Strength, Yield	>= 60.0 MPa	>= 8700 psi	ASTM D638
Elongation at Break	>= 90 %	>= 90 %	ASTM D638
Modulus of Elasticity	2.20 - 2.40 GPa	319 - 348 ksi	ASTM D638
Charpy Impact, Notched	>= 2.50 J/cmÂ²	>= 11.9 ft-lb/inÂ²	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	145 - 150 Â°C	293 - 302 Â°F	50 N, 50Â°C/h; ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	>= 80 % @Thickness 2.00 mm	>= 80 % @Thickness 0.0787 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.8 - 3.1 @Frequency 1.00e+6 Hz	2.8 - 3.1 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	>= 20.0 kV/mm @Frequency 50.0 Hz	>= 508 kV/in @Frequency 50.0 Hz	ASTM D149

Electrical Properties	Metric	English	Comments
Dielectric Loss Index	0.00080 - 0.0010 @Frequency 5.00e+7 Hz	0.00080 - 0.0010 @Frequency 5.00e+7 Hz	ASTM D150
	0.0080 - 0.011 @Frequency 1.00e+6 Hz	0.0080 - 0.011 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Solvent Content, ppm	< 500	GC

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