

Iran Petrochemical (PCC) 1922T Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

LDPE 1922T - for injection molding with a balance between flow properties and mechanical properties
Applications: toys, household articles, clamping lids.
Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-1922T-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ISO 1183
Environmental Stress Crack Resistance	3.0 hour	3.0 hour	DSM Method
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 190 °C	22 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ISO 868
Ball Indentation Hardness	16.0 MPa	2320 psi	ISO 2039-1
Tensile Strength at Break	7.00 MPa	1020 psi	ISO 527/2
Tensile Strength, Yield	8.00 MPa	1160 psi	ISO 527/2
Elongation at Break	400 %	400 %	
Tensile Modulus	0.175 GPa	25.4 ksi	ISO 527/2
Izod Impact, Notched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	ISO 180/A
Tensile Creep Modulus, 1 hour	80.0 MPa	11600 psi	ISO 899

Thermal Properties	Metric	English	Comments
Vicat Softening Point	82.0 °C	180 °F	ISO 306
Heat Distortion Temperature	39.0 °C	102 °F	ISO 75

Processing Properties	Metric	English	Comments
Melt Temperature	105 °C	221 °F	

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