

Iran Petrochemical (PCC) EX3 HM 5010 T2N High Density Polyethylene

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

Material Notes:

EX3 (HM 5010 T2N) is a natural colored high density polyethylene with Butene-1 as comonomer. The product is classified as PE 80 and good stress crack resistance properties combined with good impact strength. Applications: pipe extrusion PE80 class, pressure pipe, drinking water and gas pipes, sewer pipes and their fittings, discharge pipes, for injection molded and other fittings, sheets. Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-EX3-HM-5010-T2N-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ISO 1183
Melt Flow	0.45 g/10 min	0.45 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	12 g/10 min	12 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength, Yield	22.0 MPa	3190 psi	ISO 527-1
Elongation at Yield	8.0 %	8.0 %	ISO 527-1
Tensile Modulus	0.850 GPa	123 ksi	ISO 527-1
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Vicat Softening Point	67.0 °C	153 °F	ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	136 °C	277 °F	
	190 - 220 °C	374 - 428 °F	

Descriptive Properties	Value	Comments
Hydrostatic Strength, hr	1000	80°C; ISO 1167/DIN8075

Descriptive Properties	Value	Comments
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