

Iran Petrochemical (PCC) EX 4 HM9455 F High Density Polyethylene

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

Material Notes:

EX4 is a high density polyethylene with 1-Butene as co monomer. It is high rigidity, low gel level, high drowdown, somewhat stiffer than EX 5. Applications: film extrusion, blending partner, refuse bags, carrier bags Information provided by Iran Petrochemical Commercial Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Iran-Petrochemical-PCC-EX-4-HM9455-F-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ISO 1183
Melt Flow	0.28 g/10 min	0.28 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	8.0 g/10 min	8.0 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	61	61	ISO 868
Tensile Stress	35.0 MPa	5080 psi	at Break; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
Film Elongation at Break, MD	<= 400 %	<= 400 %	ISO 527
Film Elongation at Break, TD	<= 450 %	<= 450 %	ISO 527
Elmendorf Tear Strength MD	20.4 g	20.4 g	ISO 6383-2
Elmendorf Tear Strength TD	40.8 g	40.8 g	ISO 6383-2
Dart Drop Test	220 g	0.485 lb	ASTM D1709
Film Tensile Strength at Break, MD	<= 45.0 MPa	<= 6530 psi	ISO 527
Film Tensile Strength at Break, TD	<= 40.0 MPa	<= 5800 psi	ISO 527

Thermal Properties	Metric	English	Comments
Softening Point	75.0 °C	167 °F	ISO 306
Brittleness Temperature	>= -80.0 °C	>= -112 °F	ASTM D746-72

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	

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