

NIZHNEKAMSKNEFTEKHIM PE 6148C (486H3) High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts. Information provided by manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_NIZHNEKAMSKNEFTEKHIM-PE-6148C-486H3-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.946 - 0.950 g/cc	0.0342 - 0.0343 lb/in ³	Base Resin; ASTM D1505
Melt Flow	0.25 - 0.40 g/10 min	0.25 - 0.40 g/10 min	ASTM D1283/L
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	4.5 - 7.2 g/10 min	4.5 - 7.2 g/10 min	Flow@21.6kg/Flow@5kg ratio > 18; ASTM D1283
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	>= 53.0 MPa	>= 7690 psi	ASTM D882
Film Tensile Strength at Yield, TD	>= 50.0 MPa	>= 7250 psi	ASTM D882
Film Elongation at Break, MD	>= 500 %	>= 500 %	ASTM D882
Film Elongation at Break, TD	>= 650 %	>= 650 %	ASTM D882
Tensile Modulus	>= 0.650 GPa	>= 94.3 ksi	2% sec, TD; ASTM D882
	>= 0.700 GPa	>= 102 ksi	2% sec, MD; ASTM D882
Elmendorf Tear Strength, MD	>= 0.709 g/micron	>= 18.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	>= 2.17 g/micron	>= 55.0 g/mil	ASTM D1922
Dart Drop Test	>= 200 g	>= 0.441 lb	ASTM D1709

Descriptive Properties	Value	Comments
Gel Content (pcs./m ²)	600	

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