

NIZHNEKAMSKNEFTEKHIM PE 4252A (524H1) 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-4252A-524H1-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 - 0.954 g/cc	0.0343 - 0.0345 lb/in ³	Base Resin; ASTM D1505
Melt Flow	0.10 - 0.20 g/10 min	0.10 - 0.20 g/10 min	ASTM D1283/L
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	2.0 - 4.0 g/10 min	2.0 - 4.0 g/10 min	Flow@21.6kg/Flow@5kg ratio < 20; 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	>= 55.0 MPa	>= 7980 psi	ASTM D882
Film Tensile Strength at Yield, TD	>= 45.0 MPa	>= 6530 psi	ASTM D882
Film Elongation at Break, MD	>= 470 %	>= 470 %	ASTM D882
Film Elongation at Break, TD	>= 570 %	>= 570 %	ASTM D882
Tensile Modulus	>= 0.800 GPa	>= 116 ksi	2% sec, TD; ASTM D882
	>= 0.900 GPa	>= 131 ksi	2% sec, MD; ASTM D882
Elmendorf Tear Strength, MD	>= 0.433 g/micron	>= 11.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	>= 2.56 g/micron	>= 65.0 g/mil	ASTM D1922
Dart Drop Test	>= 170 g	>= 0.375 lb	ASTM D1709

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

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