

NIZHNEKAMSKNEFTEKHIM PE 5118Q (18603) Linear Low Density Polyethylene

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

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-5118Q-18603-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.916 - 0.920 g/cc	0.0331 - 0.0332 lb/in ³	Base Resin; ASTM D1505
Melt Flow	2.8 - 3.4 g/10 min	2.8 - 3.4 g/10 min	ASTM D1283/L
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	84 - 102 g/10 min	84 - 102 g/10 min	Flow@21.6kg/Flow@2.16kg ratio < 30; 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	>= 30.0 MPa	>= 4350 psi	ASTM D882
Film Elongation at Break, MD	>= 500 %	>= 500 %	ASTM D882
Film Elongation at Break, TD	>= 900 %	>= 900 %	ASTM D882
Tensile Modulus	>= 0.115 GPa	>= 16.7 ksi	2% sec, MD; ASTM D882
	>= 0.120 GPa	>= 17.4 ksi	2% sec, TD; ASTM D882
Elmendorf Tear Strength, MD	>= 7.48 g/micron	>= 190 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	>= 17.7 g/micron	>= 450 g/mil	ASTM D1922
Dart Drop Test	>= 100 g	>= 0.221 lb	ASTM D1709

Descriptive Properties	Value	Comments
Gel Content (pcs./m ²)	0	> 1mm
	245	(0.2-0.5)mm
	250	> 0.2mm (totally)
	5	(0.5-1.0)mm

Descriptive Properties	Value	Comments
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