

Network Polymers NPP 50-0252

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

Material Notes:

Description: High Density Polyethylene (HDPE) Blow Molding Grade Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-NPP-50-0252.php

Physical Properties	Metric	English	Comments
Density	0.952 - 0.955 g/cc	0.0344 - 0.0345 lb/in ³	ASTM D1505
Linear Mold Shrinkage	0.015 - 0.050 cm/cm	0.015 - 0.050 in/in	
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	Procedure A Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.2 MPa	3800 psi	2 in per min; ASTM D638
Elongation at Break	1200 %	1200 %	
Flexural Modulus	1.28 GPa	185 ksi	Test Method I, Procedure B (chs speed 0.05 in/min); ASTM D790
Tensile Impact Strength	210 kJ/m ²	100 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

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