

## Diamond Polymers NPP10-0218 Low Density Polyethylene

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

**Material Notes:**

Information Provided by Diamond Polymers, Inc. &amp; Network Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-NPP10-0218-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-NPP10-0218-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.2 MPa	2200 psi	Transverse to Flow; ASTM D882
	17.2 MPa	2490 psi	Direction of Flow; ASTM D882
Elongation at Break	300 %	300 %	Direction of Flow; ASTM D882
	500 %	500 %	Transverse to Flow; ASTM D882
Flexural Modulus	0.131 GPa	19.0 ksi	MD; ASTM D790
	0.152 GPa	22.0 ksi	TD; ASTM D790
Impact	130	130	g; F50; ASTM D1709

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D1003
Gloss	35 %	35 %	45°; ASTM D2457

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