

BASF Novolen® 1040 K Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Novolen-1040-K-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	
Water Absorption	0.10 %	0.10 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Melt Flow	4.7 g/10 min @Load 2.16 kg, Temperature 230 °C	4.7 g/10 min @Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	
Elongation at Break	20 %	20 %	
Elongation at Yield	7.0 %	7.0 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	13.0 J/cm ²	61.9 ft-lb/in ²	
	1.60 J/cm ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
	0.150 J/cm ² @Temperature -30.0 °C	0.714 ft-lb/in ² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	135 µm/m-°C @Temperature 20.0 °C	75.0 µin/in-°F @Temperature 68.0 °F	
Melting Point	165 °C	329 °F	
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
Vicat Softening Point	102 °C	216 °F	
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	
Dielectric Constant	2.3 @Frequency 1e+6 Hz	2.3 @Frequency 1e+6 Hz	
Dielectric Strength	140 kV/mm	3560 kV/in	
Dissipation Factor	0.000070 @Frequency 100 Hz	0.000070 @Frequency 100 Hz	
	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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