

BASF Novolen® 1104 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-1104-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	4.3 g/10 min @Load 2.16 kg, Temperature 230 °C	4.3 g/10 min @Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	10 %	10 %	
Tensile Modulus	1.50 GPa	218 ksi	
Charpy Impact Unnotched	19.0 J/cm ²	90.4 ft-lb/in ²	
	1.65 J/cm ² @Temperature -30.0 °C	7.85 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
	0.170 J/cm ² @Temperature -30.0 °C	0.809 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	163 °C	325 °F	
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	

Thermal Properties Deflection Temperature at 1.8 MPa (264 psi)	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	

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	2.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	140 kV/mm	3560 kV/in	
Dissipation Factor	0.000070	0.000070	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00020	0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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