

BASF Novolen® 1101 R 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-1101-R-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	32 g/10 min	32 g/10 min	
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.0 MPa	4930 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	10 %	10 %	
Tensile Modulus	1.50 GPa	218 ksi	
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	
	1.30 J/cm ²	6.19 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
	0.150 J/cm ²	0.714 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	135 µm/m-°C	75.0 µin/in-°F	
	@Temperature 20.0 °C	@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 <small>Deflection Temperature at 1.8 MPa (204 psi)</small>	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 @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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