

BASF Novolen® 1148 RC Polypropylene

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

Material Notes:

Nucleated grade with antistatic agent for injection molded parts.Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Novolen-1148-RC-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 %	
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	
Melt Flow	31 g/10 min @Load 2.16 kg, Temperature 230 °C	31 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	9.0 %	9.0 %	
Tensile Modulus	1.65 GPa	239 ksi	
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	
	1.30 J/cm ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
	0.150 J/cm ² @Temperature -30.0 °C	0.714 ft-lb/in ² @Temperature -22.0 °F	
Tensile Creep Modulus, 1000 hours	440 MPa	63800 psi	

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 Thermal Properties	163 °C Metric	325 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	
Vicat Softening Point	94.0 °C	201 °F	
Flammability, UL94	HB @Thickness 0.790 mm	HB @Thickness 0.0311 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	
Dielectric Constant	2.3 @Frequency 100 Hz	2.3 @Frequency 100 Hz	
	2.3 @Frequency 1e+6 Hz	2.3 @Frequency 1e+6 Hz	
Dielectric Strength	140 kV/mm	3560 kV/in	
Dissipation Factor	0.00081 @Frequency 100 Hz	0.00081 @Frequency 100 Hz	
	0.0020 @Frequency 1e+6 Hz	0.0020 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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