

## BASF Novolen® 1148 UC 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-UC-Polypropylene.php](http://www.lookpolymers.com/polymer_BASF-Novolen-1148-UC-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in <sup>3</sup>	
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	101 g/10 min	101 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	35.0 MPa	5080 psi	
Elongation at Break	20 %	20 %	
Elongation at Yield	9.0 %	9.0 %	
Tensile Modulus	1.70 GPa	247 ksi	
Charpy Impact Unnotched	7.80 J/cm <sup>2</sup>	37.1 ft-lb/in <sup>2</sup>	
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	
	0.150 J/cm <sup>2</sup>	0.714 ft-lb/in <sup>2</sup>	
	@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	

Thermal Properties	100 °C Metric	212 °F English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	60.0 °C	140 °F	
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	
Vicat Softening Point	95.0 °C	203 °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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