

BASF Novolen® 1100 N Polypropylene, Injection Molding Grade

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

Material Notes:

Grade for injection molded parts. Also available as a special grade for fibers (short spinning) and cast film. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Novolen-1100-N-Polypropylene-Injection-Molding-Grade.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	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 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	1.55 GPa	225 ksi	
Charpy Impact Unnotched	11.0 J/cm ²	52.4 ft-lb/in ²	
	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 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, 1 hour	700 MPa	102000 psi	
Tensile Creep Modulus, 1000 hours	380 MPa	55100 psi	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Thermal Coefficient to Flow	135 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Melting Point	163 $^\circ\text{C}$	325 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	85.0 $^\circ\text{C}$	185 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 $^\circ\text{C}$	131 $^\circ\text{F}$	
Vicat Softening Point	92.0 $^\circ\text{C}$	198 $^\circ\text{F}$	
Flammability, UL94	HB	HB	
	@Thickness 3.18 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	
Surface Resistance	$1.00\text{e}+14$ ohm	$1.00\text{e}+14$ ohm	
Dielectric Constant	2.3	2.3	
	@Frequency 100 Hz	@Frequency 100 Hz	
	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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China