BASF Novolen® 1102 K Polypropylene

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

Material Notes:

Grade with high processing stability for film tape (low water carryover), fibrillated film, monofilaments, OPP film (special formulations) and thermoformed 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-1102-K-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in³	
Water Absorption	0.10 %	0.10 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Melt Flow	4.7 g/10 min @Load 2.16 kg, Temperature 230 °C	4.7 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	1.40 GPa	203 ksi	
Charpy Impact Unnotched	19.0 J/cm²	90.4 ft-lb/in²	
	1.65 J/cm² @Temperature -30.0 °C	7.85 ft-lb/in² @Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	
	0.170 J/cm² @Temperature -30.0 °C	0.809 ft-lb/in² @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	85.0 °C	185 °F	

(66 psi)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	
Vicat Softening Point	92.0 °C	198 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 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	0.000070 @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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