

DuPont Performance Polymers Zytel® 70GB30HSL NC010 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Zytel® 70GB30HSL NC010 is a 30% glass bead reinforced heat stabilized polyamide 66 resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70GB30HSL-NC010-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 2.00 mm	0.011 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 2.00 mm	0.0090 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.0 MPa @Temperature 23.0 °C	11900 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	5.0 % @Temperature 23.0 °C	5.0 % @Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	4.20 GPa @Temperature 23.0 °C	609 ksi @Temperature 73.4 °F	DAM; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 180/1A
Charpy Impact Unnotched	2.40 J/cm ² @Temperature 23.0 °C	11.4 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	10°C/min; DAM; ISO 11357-1/-3
Glass Transition Temp, Tg	80.0 °C	176 °F	10°C/min; DAM; ISO 11357-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	285 - 305 °C	545 - 581 °F	DAM
Mold Temperature	70.0 - 120 °C	158 - 248 °F	DAM
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Forms	Pellets	DAM
Generic	PA66	DAM
Material Status	Preliminary Data	DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
	Low Warp Resins	DAM
RoHS Compliance	Contact Manufacturer	DAM

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