

## DuPont Performance Polymers Zytel® 70G35EF NC010 Nylon 66 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

### Material Notes:

Zytel® 70G35EF NC010 is a 35% glass reinforced polyamide 66 developed for electrical and electronics applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-70G35EF-NC010-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35EF-NC010-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 2.00 mm	0.0070 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	200 MPa @Temperature 23.0 °C	29000 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	3.5 % @Temperature 23.0 °C	3.5 % @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	11.0 GPa @Temperature 23.0 °C	1600 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	10.0 GPa @Temperature 23.0 °C	1450 ksi @Temperature 73.4 °F	DAM; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	6.19 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DAM; ISO 180/1A
	15.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 180/1A
Charpy Impact, Notched	1.20 J/cm <sup>2</sup> @Temperature -40.0 °C	5.71 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DAM; ISO 179/1eA
	1.40 J/cm <sup>2</sup> @Temperature 23.0 °C	6.66 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	DAM; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+18 ohm-cm	2.00e+18 ohm-cm	DAM; IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Surface Resistance	4.00e+15 ohm	4.00e+15 ohm	DAM; IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	295 °C	563 °F	DAM; Optimum
	285 - 305 °C	545 - 581 °F	
Mold Temperature	70.0 - 120 °C	158 - 248 °F	DAM
	100 °C	212 °F	
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
Appearance	Natural Color	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA66-GF35<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	Electrical Resins	DAM
	Encapsulation Resins	DAM
	Glass Reinforced Resins	DAM
Region Available - Global	Yes	DAM

Descriptive Properties	Value	Comments
RESONANCE FREQUENCY	GF35	ISO 10443, DAM
RoHS Compliance	Contact Manufacturer	DAM

## Contact Songhan Plastic Technology Co.,Ltd.

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