

DuPont Performance Polymers Zytel® 70G35HSL BK039B Nylon 66 (Unverified Data**)

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

Material Notes:

35% Glass Reinforced Heat Stabilized Polyamide 66 Zytel 70G35HSL BK039B is a 35% glass fiber reinforced heat stabilized black polyamide 66 for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35HSL-BK039B-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	DAM; ISO 1183
Viscosity Test	145 cm ³ /g	145 cm ³ /g	DAM; ISO 307 1157 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	50%RH; ISO 527-1/-2
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	DAM; ISO 527-1/-2
	4.0 %	4.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	8.40 GPa	1220 ksi	50%RH; ISO 527-1/-2
	11.4 GPa	1650 ksi	DAM; ISO 527-1/-2
Shear Modulus	0.6981 GPa	101.3 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature 150 °C	@Temperature 302 °F	
	0.8178 GPa	118.6 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature 110 °C	@Temperature 230 °F	
	1.2514 GPa	181.50 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature 60.0 °C	@Temperature 140 °F	
	2.2505 GPa	326.41 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2.3736 GPa	344.27 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.518 GPa	365.2 ksi	50%RH; Dynamic; ISO 11403-1 -2
	@Temperature -50.0 °C	@Temperature -58.0 °F	

Mechanical Properties	Metric	English	Comments
	13.0 kJ/m ²	6.19 ft-lb/in ²	50%RH; ISO 180/1A
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	DAM; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	DAM; ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	DAM; IEC 60695-11-10
Flame Spread	22 mm/min @Thickness 1.00 mm	0.87 in/min @Thickness 0.0394 in	ISO 3795 (FMVSS 302)

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Emission of organic compounds	10 µgC/g	VDA 277
Odour	class 3	VDA 270
Part Marking Code	>PA66-GF35<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Europe	
	Near East/Africa	
Resin Identification	PA66-GF35	
Special Characteristics	Heat stabilised or stable to heat	

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