

DuPont Performance Polymers Zytel® 70G43HSLA BK099 Nylon 66 (Unverified Data**)

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

Material Notes:

43% Glass Reinforced Heat Stabilized Polyamide 66 Zytel 70G43HSLA BK099 is a 43% glass fiber reinforced heat stabilized black polyamide 66 resin 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-70G43HSLA-BK099-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	DAM; ISO 1183
Water Absorption	7.6 %	7.6 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	2.20 %	2.20 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity Test	120 cm ³ /g	120 cm ³ /g	DAM; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	50%RH; ISO 527-1/-2
	225 MPa	32600 psi	DAM; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	DAM; ISO 527-1/-2
	3.5 %	3.5 %	50%RH; ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	50%RH; ISO 527-1/-2
	14.0 GPa	2030 ksi	DAM; ISO 527-1/-2
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	DAM; ISO 180/1A
	16.0 kJ/m ²	7.61 ft-lb/in ²	50%RH; ISO 180/1A
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	DAM; ISO 179/1eU
	9.50 J/cm ²	45.2 ft-lb/in ²	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	DAM; ISO 179/1eA

Mechanical Properties	1.80 J/cm ² Metric	8.57 ft-lb/in ² English	50%RH: ISO 179/1eA Comments
Puncture Energy	4.40 J	3.25 ft-lb	DAM; ISO 6603-2

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	of melt
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	258 °C	496 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	DAM; ISO 75-1/-2
Glass Transition Temp, Tg	80.0 °C	176 °F	DAM; 10°C/min; ISO 11357-1/-2
Oxygen Index	24 %	24 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	DAM; IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	DAM; IEC 60243-1
Dissipation Factor	0.013	0.013	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.015	0.015	DAM; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PA66-GF43<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	

Descriptive Properties	North America Value	Comments
	South and Central America	
Resin Identification	PA66-GF43	
Special Characteristics	Heat stabilised or stable to heat	

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