

DuPont Performance Polymers Zytel® FG70G30HSR3 BK309 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FG70G30HSR3-BK309-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
	1.37 g/cc	0.0495 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	50%RH; ISO 527-1/-2
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Elongation at Break	3.3 %	3.3 %	DAM; ISO 527-1/-2
	5.0 %	5.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	7.20 GPa	1040 ksi	50%RH; ISO 527-1/-2
	10.0 GPa	1450 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	DAM; ISO 179/1eU
	9.00 J/cm ²	42.8 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
	1.50 J/cm ²	7.14 ft-lb/in ²	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 μm/m-°C	15.6 μin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	95.0 μm/m-°C	52.8 μin/in-°F	DAM; ISO 11359-1/-2
Specific Heat Capacity	2.22 J/g-°C	0.531 BTU/lb-°F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	of melt

Melting Point Thermal Properties	263 °C Metric	505 °F English	DAM; 10°C/min; ISO 11357-1/-3 Comments
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
Vicat Softening Point	209 °C	408 °F	DAM; 50°C/h 50N; ISO 306
Glass Transition Temp, Tg	80.0 °C	176 °F	DAM; 10°C/min; ISO 11357-1/-2
Oxygen Index	19 %	19 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	50%RH; IEC 60093

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Eff. thermal diffusivity	6.85E-08 m ² /s	
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	
	South and Central America	
Special Characteristics	Heat stabilised or stable to heat	

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