

DuPont Performance Polymers Zytel® FE270050 BK099 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

30% Glass/Mineral Reinforced Polyamide 66 Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FE270050-BK099-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
Water Absorption	6.0 %	6.0 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	1.90 %	1.90 %	
	@Thickness 2.00 mm	@Thickness 0.0787 in	DAM; Sim. to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	DAM; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527-1/-2
Tensile Modulus	9.00 GPa	1310 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	DAM; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.29 J/g-°C	0.547 BTU/lb-°F	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	of melt
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Glass Transition Temp, Tg	80.0 °C	176 °F	DAM; 10°C/min; ISO 11357-1/-2
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	DAM; IEC 60695-11-10
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	DAM; IEC 60695-11-10

Thermal Properties	Metric	English	Comments
Flame Spread	24 mm/min	9.84 in/min	ISO 3795 (FMVSS 302)
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Oxygen Index	24 %	24 %	DAM; ISO 4589-1/-2

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Eff. thermal diffusivity	6.85E-08 m²/s	
Processing	Injection Moulding	
Regional Availability	Europe	
	Near East/Africa	
Special Characteristics	Heat stabilised or stable to heat	

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