

DuPont Performance Polymers Zytel® 8018HS BKB085 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

Material Notes:

14% Glass Reinforced Toughened Heat Stabilized Polyamide 66 Zytel 8018HS BKB085 is a 14% glass reinforced toughened heat stabilized black polyamide 66 resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-8018HS-BKB085-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	DAM; ISO 2039-2
Hardness, Rockwell R	110	110	DAM; ISO 2039-2
Tensile Strength at Break	85.0 MPa	12300 psi	DAM; ISO 527-1/-2
Elongation at Break	9.0 %	9.0 %	DAM; ISO 527-1/-2
Tensile Modulus	4.20 GPa	609 ksi	DAM; ISO 527-1/-2
Flexural Modulus	3.60 GPa	522 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	DAM; ISO 180/1A
	7.00 kJ/m ² @Temperature -40.0 °C	3.33 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 180/1A
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	DAM; ISO 179/1eA
	0.400 J/cm ² @Temperature -40.0 °C	1.90 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	118 µm/m-°C	65.6 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	263 °C	505 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	246 °C	475 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa	195 °C	383 °F	DAM; ISO 75-1/-2

(264 psi) Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	580 V	580 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Part Marking Code	>PA66-IGF14<	ISO 11469
Processing	Injection Moulding	
Regional Availability	North America	
	South and Central America	
Resin Identification	PA66-IGF14	
Special Characteristics	Heat stabilised or stable to heat	

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