

DuPont Performance Polymers Zytel® 103FHS BKB009 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Unreinforced Heat Stabilized Polyamide 66 Zytel 103FHS BKB009 is a heat stabilized internally lubricated polyamide 66 resin for injection molding. It was developed for fast cycles and high productivity. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-103FHS-BKB009-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	DAM; ISO 527-1/-2
Elongation at Break	15 %	15 %	DAM; Nominal; ISO 527-1/-2
Elongation at Yield	4.3 %	4.3 %	DAM; ISO 527-1/-2
Tensile Modulus	3.10 GPa	450 ksi	DAM; ISO 527-1/-2
Flexural Modulus	2.80 GPa	406 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	DAM; ISO 180/1A
	5.00 kJ/m ² @Temperature -40.0 °C	2.38 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 180/1A
Izod Impact, Unnotched (ISO)	200 kJ/m ²	95.2 ft-lb/in ²	DAM; ISO 180/1U
Charpy Impact Unnotched	25.0 J/cm ²	119 ft-lb/in ²	DAM; ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	DAM; ISO 75-1/-2

Thermal Properties	V-2 Metric	V-2 English	Comments
Flammability, UL 94	@Thickness 0.700 mm	@Thickness 0.0276 in	DAM; IEC 60695-11-10
	V-2	V-2	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Descriptive Properties	Value	Comments
Part Marking Code	>PA66<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA66	
Special Characteristics	Heat stabilised or stable to heat	
UL recognition	UL	DAM

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