

DuPont Performance Polymers Zytel® 84G33 BKB031 Nylon 66 + Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/Nylon 6 Blend, Glass Fiber Filled

Material Notes:

33% Glass Reinforced Toughened Polyamide 66 + Polyamide 6 Zytel 84G33 BKB031 is a 33% glass reinforced toughened polyamide 66 and polyamide 6 co-melt black cube blended resin. This resin was developed for applications requiring strength stiffness and information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-84G33-BKB031-Nylon-66-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	53	53	50%RH; ISO 2039-2
	81	81	DAM; ISO 2039-2
Hardness, Rockwell R	113	113	50%RH; ISO 2039-2
	116	116	DAM; ISO 2039-2
Tensile Strength at Break	115 MPa	16700 psi	50%RH; ISO 527-1/-2
	150 MPa	21800 psi	DAM; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	DAM; ISO 527-1/-2
	8.6 %	8.6 %	50%RH; ISO 527-1/-2
Tensile Modulus	6.929 GPa	1005 ksi	50%RH; ISO 527-1/-2
	9.00 GPa	1310 ksi	DAM; ISO 527-1/-2
Flexural Modulus	5.60 GPa	812 ksi	50%RH; ISO 178
	7.68 GPa	1110 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	DAM; ISO 180/1A
	23.0 kJ/m ²	10.9 ft-lb/in ²	50%RH; ISO 180/1A
	12.0 kJ/m ²	5.71 ft-lb/in ²	50%RH; ISO 180/1A

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	15.0 kJ/m ²	7.14 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	50%RH; ISO 179/1eA
	2.10 J/cm ²	9.99 ft-lb/in ²	DAM; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	250 °C	482 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	247 °C	477 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	222 °C	432 °F	DAM; ISO 75-1/-2
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	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PA66+PA6-IGF33<	ISO 11469
Processing	Injection Moulding	
Regional Availability	North America	
	South and Central America	

Resin Identification Descriptive Properties	PA66+PA6-IGF33 Value	Comments
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