

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

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

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 impact resistance along with good surface appearance. 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-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 @Thickness 2.00 mm	0.0010 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 2.00 mm	0.0060 in/in @Thickness 0.0787 in	DAM; ISO 294-4

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	60.0 MPa @Temperature 150 °C	8700 psi @Temperature 302 °F	50%RH; ISO 527
	66.0 MPa @Temperature 120 °C	9570 psi @Temperature 248 °F	50%RH; ISO 527
	67.0 MPa @Temperature 150 °C	9720 psi @Temperature 302 °F	DAM; ISO 527
	71.0 MPa @Temperature 100 °C	10300 psi @Temperature 212 °F	50%RH; ISO 527
	75.0 MPa @Temperature 120 °C	10900 psi @Temperature 248 °F	DAM; ISO 527
	77.0 MPa	11200 psi	

Mechanical Properties	Metric @ Temperature 80.0 °C	English @ Temperature 176 °F	50%RH; ISO 527 Comments
	82.0 MPa @Temperature 100 °C	11900 psi @Temperature 212 °F	DAM; ISO 527
	84.0 MPa @Temperature 60.0 °C	12200 psi @Temperature 140 °F	50%RH; ISO 527
	90.0 MPa @Temperature 80.0 °C	13100 psi @Temperature 176 °F	DAM; ISO 527
	102 MPa @Temperature 60.0 °C	14800 psi @Temperature 140 °F	DAM; ISO 527
	115 MPa @Temperature 23.0 °C	16700 psi @Temperature 73.4 °F	50%RH; ISO 527
	144 MPa @Temperature 0.000 °C	20900 psi @Temperature 32.0 °F	50%RH; ISO 527
	150 MPa @Temperature 23.0 °C	21800 psi @Temperature 73.4 °F	DAM; ISO 527
	167 MPa @Temperature 0.000 °C	24200 psi @Temperature 32.0 °F	DAM; ISO 527
	205 MPa @Temperature -40.0 °C	29700 psi @Temperature -40.0 °F	50%RH; ISO 527
	220 MPa @Temperature -40.0 °C	31900 psi @Temperature -40.0 °F	DAM; ISO 527
Elongation at Break	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	DAM; ISO 527
	5.4 % @Temperature -40.0 °C	5.4 % @Temperature -40.0 °F	50%RH; ISO 527
	5.5 % @Temperature 0.000 °C	5.5 % @Temperature 32.0 °F	DAM; ISO 527
	5.7 % @Temperature 0.000 °C	5.7 % @Temperature 32.0 °F	50%RH; ISO 527
	6.0 % @Temperature -40.0 °C	6.0 % @Temperature -40.0 °F	DAM; ISO 527

Mechanical Properties	Metric	English	Comments
	8.5 %	8.5 %	DAM; ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
	8.6 %	8.6 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.2 %	9.2 %	50%RH; ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
	9.5 %	9.5 %	50%RH; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	9.5 %	9.5 %	50%RH; ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	9.6 %	9.6 %	DAM; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	10 %	10 %	DAM; ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	10.3 %	10.3 %	50%RH; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	10.7 %	10.7 %	DAM; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	11.2 %	11.2 %	50%RH; ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	11.6 %	11.6 %	DAM; ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	3.746 GPa	543.3 ksi	50%RH; ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	4.052 GPa	587.7 ksi	DAM; ISO 527
	@Temperature 150 °C	@Temperature 302 °F	
	4.223 GPa	612.5 ksi	50%RH; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	4.384 GPa	635.8 ksi	DAM; ISO 527
	@Temperature 120 °C	@Temperature 248 °F	

Mechanical Properties	4.70 GPa Metric	682 ksi English	Comments 50%RH; ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	4.956 GPa	718.8 ksi	DAM; ISO 527
	@Temperature 100 °C	@Temperature 212 °F	
	5.182 GPa	751.6 ksi	50%RH; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.518 GPa	800.3 ksi	50%RH; ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
	5.614 GPa	814.2 ksi	DAM; ISO 527
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.905 GPa	1001 ksi	DAM; ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
	6.929 GPa	1005 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 GPa	1310 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.074 GPa	1316 ksi	DAM; ISO 527
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	9.286 GPa	1347 ksi	50%RH; ISO 527
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	9.426 GPa	1367 ksi	DAM; ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	10.234 GPa	1484.3 ksi	50%RH; ISO 527
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	3.167 GPa	459.3 ksi	50%RH; ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	3.33 GPa	483 ksi	DAM; ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	3.461 GPa	502.0 ksi	50%RH; ISO 178
	@Temperature 120 °C	@Temperature 248 °F	
	3.502 GPa	507.9 ksi	

Mechanical Properties	Metric @ Temperature 120 °C	English @ Temperature 248 °F	Comments DAM; ISO 178
	3.633 GPa	526.9 ksi	50%RH; ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
	3.651 GPa	529.5 ksi	DAM; ISO 178
	@Temperature 100 °C	@Temperature 212 °F	
	3.737 GPa	542.0 ksi	50%RH; ISO 178
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.982 GPa	577.5 ksi	DAM; ISO 178
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.006 GPa	581.0 ksi	50%RH; ISO 178
	@Temperature 60.0 °C	@Temperature 140 °F	
	4.461 GPa	647.0 ksi	DAM; ISO 178
	@Temperature 60.0 °C	@Temperature 140 °F	
	5.60 GPa	812 ksi	50%RH; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.683 GPa	1114 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.723 GPa	1120 ksi	DAM; ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.859 GPa	1140 ksi	DAM; ISO 178
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	8.042 GPa	1166 ksi	50%RH; ISO 178
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.082 GPa	1172 ksi	50%RH; ISO 178
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Izod Impact, Notched (ISO)	12.0 kJ/m²	5.71 ft-lb/in²	50%RH; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	15.0 kJ/m²	7.14 ft-lb/in²	DAM; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	21.0 kJ/m²	9.99 ft-lb/in²	DAM; ISO 180/1A

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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