

## DuPont Performance Polymers Zytel® 70G33L BK031 Nylon 66 (Unverified Data\*\*)

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

### Material Notes:

33% Glass Reinforced Polyamide 66 Zytel 70G33L BK031 is a 33% glass fiber reinforced black polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-70G33L-BK031-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G33L-BK031-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	50%RH; ISO 527-1/-2
	200 MPa	29000 psi	DAM; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527-1/-2
	4.0 %	4.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	50%RH; ISO 527-1/-2
	10.5 GPa	1520 ksi	DAM; ISO 527-1/-2
Flexural Modulus	9.30 GPa	1350 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	DAM; ISO 180/1A
	10.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DAM; ISO 180/1A
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature -40.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	83.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	46.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	DAM; ISO 11359-1/-2
Melting Point	262 $^{\circ}\text{C}$	504 $^{\circ}\text{F}$	DAM; 10 $^{\circ}\text{C}/\text{min}$ ; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	261 $^{\circ}\text{C}$	502 $^{\circ}\text{F}$	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	252 $^{\circ}\text{C}$	486 $^{\circ}\text{F}$	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.700 mm	@Thickness 0.0276 in	
Flame Spread	35 mm/min	1.4 in/min	ISO 3795 (FMVSS 302)
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Part Marking Code	>PA66-GF33<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA66-GF33	

## Contact Songhan Plastic Technology Co.,Ltd.

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