

DuPont Performance Polymers Zytel® BM70G20HSLX BK537 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 20% Glass Fiber Filled

Material Notes:

Zytel® BM70G20HSLX BK537 is a 20% glass fiber reinforced polyamide 66 for blow molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-BM70G20HSLX-BK537-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	DAM; ISO 1183
Filler Content	20 %	20 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	5mm/min; 50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 MPa	17400 psi	5mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.9 %	3.9 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.5 %	13.5 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	4.00 GPa	580 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.40 GPa	928 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 kJ/m ²	4.28 ft-lb/in ²	50%RH; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.20 J/cm ²	34.3 ft-lb/in ²	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.20 J/cm ²	34.3 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	DAM; ISO 179/1eU Comments
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	DAM; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	50%RH; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	237 °C	459 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	DAM; Optimum; Blow Molding
	285 - 305 °C	545 - 581 °F	
Drying Temperature	100 - 110 °C	212 - 230 °F	DAM; Blow Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	DAM; Blow Molding
Moisture Content	<= 0.050 %	<= 0.050 %	DAM; Blow Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Filler	Glass fiber reinforcement	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA66-IGF20<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA66	DAM
Processing Method	Blow Molding	DAM
Product Category	Blow Moldable Resins	DAM
	Glass Reinforced Resins	DAM

Descriptive Properties	Value	Comments
Region Available - Global	Yes	DAM
Resin Identification	PA66-IGF20	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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