

## DuPont Performance Polymers Zytel® BM73G15THS BK317 Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

### Material Notes:

Zytel® BM73G15THS is a 15% glass fiber reinforced, heat stabilized, lubricated, toughened polyamide 6 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-BM73G15THS-BK317-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-BM73G15THS-BK317-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	DAM; ISO 1183
Filler Content	15 %	15 %	DAM
Linear Mold Shrinkage, Flow	0.0028 cm/cm @Thickness 2.00 mm	0.0028 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa @Temperature 23.0 °C	9430 psi @Temperature 73.4 °F	50%RH; ISO 527
	107 MPa @Temperature 23.0 °C	15500 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	5.7 % @Temperature 23.0 °C	5.7 % @Temperature 73.4 °F	DAM; ISO 527
	22 % @Temperature 23.0 °C	22 % @Temperature 73.4 °F	50%RH; ISO 527
Tensile Modulus	2.50 GPa @Temperature 23.0 °C	363 ksi @Temperature 73.4 °F	50%RH; ISO 527
	5.10 GPa @Temperature 23.0 °C	740 ksi @Temperature 73.4 °F	DAM; ISO 527
Charpy Impact Unnotched	8.50 J/cm <sup>2</sup> @Temperature 23.0 °C	40.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DAM; ISO 179/1eU
	11.5 J/cm <sup>2</sup> @Temperature 23.0 °C	54.7 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	50%RH; ISO 179/1eU
	2.70 J/cm <sup>2</sup>	12.8 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	DAM; ISO 179/1eA Comments
	3.30 J/cm <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	@ Temperature 23.0 °C	@ Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	DAM; Optimum
	260 - 280 °C	500 - 536 °F	DAM
Mold Temperature	50.0 - 100 °C	122 - 212 °F	DAM
	80.0 °C	176 °F	DAM; optimum
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.030 %	<= 0.030 %	DAM

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 6	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA6-IGF15<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA6	DAM
Processing Method	Blow Molding	DAM
Product Category	Blow Moldable Resins	DAM

Descriptive Properties	Glass Reinforced Resins Value	DAM Comments
	Toughened Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6-IGF15	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

## Contact Songhan Plastic Technology Co.,Ltd.

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