

DuPont Performance Polymers Zytel® BM7300THS BK317 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Zytel® BM7300THS is an unreinforced, 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-BM7300THS-BK317-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	160 %	160 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 160 %	>= 160 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.4 %	4.4 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	0.570 GPa	82.7 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.17 GPa	315 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.20 J/cm²	10.5 ft-lb/in²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.30 J/cm²	10.9 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.20 J/cm²	39.0 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.0 J/cm²	71.4 ft-lb/in²	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 0.46 MPa (66 psi)	117 °C	243 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	DAM; ISO 75-1/-2

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Forms	Pellets	DAM
Generic	Nylon 6	DAM
Material Status	Preliminary Data	DAM
Processing Method	Blow Molding	DAM
Product Category	Blow Moldable Resins	DAM
	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
RoHS Compliance	Contact Manufacturer	DAM

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