

DuPont Performance Polymers Zytel® ST7301 BK356 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Super Toughened Polyamide 6 Zytel ST7301 BK356 is a Super Tough heat stabilized lubricated black polyamide 6 resin for injection molding and extrusion. It offers outstanding impact resistance over a wide temperature and humidity range and high product information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-ST7301-BK356-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	50%RH; ISO 527-1/-2
	48.0 MPa	6960 psi	DAM; ISO 527-1/-2
Elongation at Break	45 %	45 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	DAM; ISO 527-1/-2
	33 %	33 %	50%RH; ISO 527-1/-2
Tensile Modulus	0.550 GPa	79.8 ksi	50%RH; ISO 527-1/-2
	1.80 GPa	261 ksi	DAM; ISO 527-1/-2
Flexural Modulus	0.610 GPa	88.5 ksi	50%RH; ISO 178
	1.80 GPa	261 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	57.0 kJ/m ²	27.1 ft-lb/in ²	DAM; ISO 180/1A
	95.0 kJ/m ²	45.2 ft-lb/in ²	50%RH; ISO 180/1A
	12.0 kJ/m ²	5.71 ft-lb/in ²	50%RH; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	13.0 kJ/m ²	6.19 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	15.0 kJ/m ²	7.14 ft-lb/in ²	

Mechanical Properties	Metric @Temperature -30.0 °C	English @Temperature -22.0 °F	50%RH; ISO 180/1A Comments
	16.0 kJ/m ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 180/1A
Charpy Impact, Notched	7.70 J/cm ²	36.6 ft-lb/in ²	DAM; ISO 179/1eA
	12.0 J/cm ²	57.1 ft-lb/in ²	50%RH; ISO 179/1eA
	1.40 J/cm ² @Temperature -40.0 °C	6.66 ft-lb/in ² @Temperature -40.0 °F	50%RH; ISO 179/1eA
	1.60 J/cm ² @Temperature -40.0 °C	7.61 ft-lb/in ² @Temperature -40.0 °F	DAM; ISO 179/1eA
	1.70 J/cm ² @Temperature -30.0 °C	8.09 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eA
	1.80 J/cm ² @Temperature -30.0 °C	8.57 ft-lb/in ² @Temperature -22.0 °F	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	DAM; ISO 75-1/-2

Descriptive Properties	Value	Comments
Part Marking Code	>PA6-HI<	ISO 11469
Processing	Casting	
	Coatable	
	Film Extrusion	
	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA6-HI	

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