

DuPont Performance Polymers Zytel® PLS 93G35DH1 BK261 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

35% Glass Reinforced Heat Stabilized Polyamide 6 Zytel PLS93G35DH1 BK261 is a 35% glass reinforced PA6 using SHIELD Technology only from DuPont it provides exceptional welding resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-PLS-93G35DH1-BK261-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	DAM; ISO 1183
Moisture Absorption	2.00 %	2.00 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	50%RH; ISO 527-1/-2
	197 MPa	28600 psi	DAM; ISO 527-1/-2
Elongation at Break	3.5 %	3.5 %	DAM; ISO 527-1/-2
	7.0 %	7.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	50%RH; ISO 527-1/-2
	11.5 GPa	1670 ksi	DAM; ISO 527-1/-2
Flexural Strength	309 MPa	44800 psi	DAM; ISO 178
Flexural Modulus	10.1 GPa	1460 ksi	DAM; ISO 178
Charpy Impact Unnotched	9.30 J/cm ²	44.3 ft-lb/in ²	50%RH; ISO 179/1eU
	9.60 J/cm ²	45.7 ft-lb/in ²	DAM; ISO 179/1eU
	8.10 J/cm ²	38.5 ft-lb/in ²	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.30 J/cm ²	39.5 ft-lb/in ²	50%RH; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Charpy Impact, Notched Mechanical Properties	1.50 J/cm ² Metric	7.14 ft-lb/in ² English	DAM; ISO 179/1eA Comments
	1.30 J/cm ²	6.19 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.00 µm/m-°C	1.67 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	10.0 µm/m-°C	5.56 µin/in-°F	DAM; ISO 11359-1/-2
Melting Point	224 °C	435 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	414 °F	DAM; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.10e+13 ohm-cm	7.10e+13 ohm-cm	50%RH; IEC 60093
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	DAM; IEC 60093
Surface Resistance	6.10e+13 ohm	6.10e+13 ohm	50%RH; IEC 60093
Comparative Tracking Index	550 V	550 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Part Marking Code	>PA6-GF35<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA6-GF35	
Special Characteristics	Heat stabilised or stable to heat	

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