

DuPont Performance Polymers Zytel® 73G30HSL BK261 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Zytel® 73G30HSL BK261 is a 30% glass fiber reinforced, heat stabilized, lubricated, black polyamide 6 for injection molding. It has excellent surface appearance and gloss. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-73G30HSL-BK261-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	DAM; ISO 1183
Filler Content	30 %	30 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 MPa	26100 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.0 %	6.0 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	5.70 GPa	827 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.50 GPa	1380 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	6.00 GPa	870 ksi	50%RH; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 GPa	1310 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	18.0 kJ/m ²	8.57 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; ISO 180/1A Comments
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.00 J/cm ²	42.8 ft-lb/in ²	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
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	
	2.00 J/cm ²	9.52 ft-lb/in ²	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)	220 °C	428 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	DAM; ISO 75-1/-2
UL RTI, Electrical	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	65.0 °C	149 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	DAM; UL 746B
	65.0 °C	149 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	65.0 °C	149 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	DAM; UL 746B
	65.0 °C	149 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	65.0 °C	149 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	DAM; UL 746B

Thermal Properties	65.0 °C Metric	149 °F English	Comments DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; UL94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	DAM; UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	DAM; Optimum
	260 - 280 °C	500 - 536 °F	
Mold Temperature	70.0 - 120 °C	158 - 248 °F	DAM
	100 °C	212 °F	
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	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	Current	DAM

Descriptive Properties	Value	Comments
Part Marking Code	>PA6-GF30<	ISO 11468; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA6	DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
Resin Identification	PA6-GF30	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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