DuPont Performance Polymers Zytel® 73G35HSL BK262 Nylon 6 (Unverified Data**)

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

Material Notes:

Zytel® 73G35HSL BK262 is a 35% glass fiber reinforced, heat stabilized, black polyamide 6 resin for injection molding.Information provided by DuPont Performance Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-73G35HSL-BK262-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in³	DAM; ISO 1183
Filler Content	35 %	35 %	DAM
Water Absorption	1.8 % @Thickness 1.00 mm, Temperature 23.0 °C	1.8 % @Thickness 0.0394 in, Temperature 73.4 °F	Equilibrium 50%RH; DAM; ISO 62, Similar to
	5.8 % @Thickness 1.00 mm, Temperature 23.0 °C	5.8 % @Thickness 0.0394 in, Temperature 73.4 °F	Saturation, immersed; DAM; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 2.00 mm	0.0020 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 2.00 mm	0.010 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa @Temperature 23.0 °C	16700 psi @Temperature 73.4 °F	50%RH; ISO 527
	190 MPa @Temperature 23.0 °C	27600 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	3.2 % @Temperature 23.0 °C	3.2 % @Temperature 73.4 °F	DAM; ISO 527
	5.0 % @Temperature 23.0 °C	5.0 % @Temperature 73.4 °F	50%RH; ISO 527
Tensile Modulus	6.50 GPa @Temperature 23.0 °C	943 ksi @Temperature 73.4 °F	50%RH; ISO 527

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	DAM; ISO 527
Izod Impact, Notched (ISO)	13.0 kJ/m² @Temperature 23.0 °C	6.19 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 180/1A
	20.0 kJ/m² @Temperature 23.0 °C	9.52 ft-lb/in² @Temperature 73.4 °F	50%RH; ISO 180/1A
Charpy Impact Unnotched	9.00 J/cm² @Temperature 23.0 °C	42.8 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eU
	9.00 J/cm² @Temperature 23.0 °C	42.8 ft-lb/in² @Temperature 73.4 °F	50%RH; ISO 179/1eU
	9.00 J/cm² @Temperature -30.0 °C	42.8 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 179/1eU
	9.00 J/cm² @Temperature -30.0 °C	42.8 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 179/1eA
	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 179/1eA
	1.10 J/cm² @Temperature -40.0 °C	5.23 ft-lb/in² @Temperature -40.0 °F	DAM; ISO 179/1eA
	1.20 J/cm² @Temperature -40.0 °C	5.71 ft-lb/in² @Temperature -40.0 °F	50%RH; ISO 179/1eA
	1.60 J/cm² @Temperature 23.0 °C	7.61 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eA
	2.20 J/cm² @Temperature 23.0 °C	10.5 ft-lb/in² @Temperature 73.4 °F	50%RH; ISO 179/1eA

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			DAM; ISO 75-1/-2

(264 psi)	208 °C	406 °F	
Thermal Properties	**Metric**	**English**	**Comments**
UL RTI, Electrical	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	DAM; UL 746B
UL RTI, Mechanical with Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	DAM; UL 746B
UL RTI, Mechanical without Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	DAM; UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	DAM; UL94
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	DAM; IEC 60695-11-10

Processing Properties	Metric	English	Comments
Melt Temperature	270 °C	518 °F	DAM; Optimum
	260 - 280 °C	500 - 536 °F	DAM
Mold Temperature	70.0 - 120 °C	158 - 248 °F	DAM
	100 °C	212 °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	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	DAM
	Lubricant	DAM
Appearance	Black Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Fatigue Resistant	DAM
	Fuel Resistant	DAM
	Grease Resistant	DAM

Descriptive Properties	Value	Comments
	Heat Aging Resistance, Good	DAM
	Heat Stabilized	DAM
	Oil Resistant	DAM
	Thermal Aging Resistance, Good	DAM
Filler	Glass fiber reinforcement	DAM
Forms	Pellets	DAM
Generic	Nylon 6	DAM
Material Status	Current	DAM
Part Marking Code	>PA6-GF35<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA6	DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6-GF35	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Appliance Components	DAM
	Automotive Applications	DAM
	Electrical/Electronic Applications	DAM
	High Gloss Applications	DAM
	Industrial Applications	DAM

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