

DuPont Performance Polymers Zytel® 73G15HSL BK363 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

15% Glass Reinforced Heat Stabilized Polyamide 6 Zytel 73G15HSL BK363 is a 15% 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-73G15HSL-BK363-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	DAM; ISO 1183
Water Absorption	7.6 %	7.6 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	2.50 %	2.50 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity Test	150 cm ³ /g	150 cm ³ /g	DAM; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	50%RH; ISO 527-1/-2
	130 MPa	18900 psi	DAM; ISO 527-1/-2
Elongation at Break	2.3 %	2.3 %	DAM; ISO 527-1/-2
	10 %	10 %	50%RH; ISO 527-1/-2
Tensile Modulus	4.00 GPa	580 ksi	50%RH; ISO 527-1/-2
	6.50 GPa	943 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	DAM; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	50%RH; ISO 179/1eU
	4.00 J/cm ²	19.0 ft-lb/in ²	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.00 J/cm ²	19.0 ft-lb/in ²	50%RH; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.600 J/cm ²	2.14 ft-lb/in ²	DAM; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	50%RH; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	DAM; ISO 11359-1/-2
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	of melt
Melting Point	221 °C	430 °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)	204 °C	399 °F	DAM; ISO 75-1/-2
Vicat Softening Point	215 °C	419 °F	DAM; 50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flame Spread	25 mm/min	0.98 in/min	ISO 3795 (FMVSS 302)
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Oxygen Index	21 %	21 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.5 kV/mm	546 kV/in	DAM; IEC 60243-1

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	
Emission of organic compounds	8.5 µgC/g	VDA 277; DS
Odour	class 4	VDA 270; DS

Descriptive Properties	Value	Comments
Part Marking Code	PA6-GF15	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA6-GF15	
Special Characteristics	Heat stabilised or stable to heat	

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