

DuPont Performance Polymers Zytel® 70G25HSLR NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

25% Glass Reinforced Heat Stabilized Hydrolysis Resistant Polyamide 66 Zytel 70G25HSLR NC010 is a 25% glass fiber reinforced heat stabilized hydrolysis resistant polyamide 66 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-70G25HSLR-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
	1.32 g/cc	0.0477 lb/in ³	DAM; ISO 1183
Water Absorption	6.4 %	6.4 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	2.00 %	2.00 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	57704 cP	57704 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 305 °C	@Shear Rate 5000 1/s, Temperature 581 °F	
	68380 cP	68380 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 295 °C	@Shear Rate 5000 1/s, Temperature 563 °F	
	82058 cP	82058 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 285 °C	@Shear Rate 5000 1/s, Temperature 545 °F	
	164300 cP	164300 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 305 °C	@Shear Rate 500 1/s, Temperature 581 °F	
	204000 cP	204000 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F	
	254600 cP	254600 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 285 °C	@Shear Rate 500 1/s, Temperature 545 °F	
Viscosity Test	140 cm ³ /g	140 cm ³ /g	DAM; ISO 307 1157 1628

Linear Mold Shrinkage, Flow Physical Properties	0.0030 cm/cm Metric	0.0030 in/in English	DAM; ISO 294-4 2577 Comments
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	260 MPa	37700 psi	DAM; H 961/30; ISO 2039-1
Tensile Strength at Break	120 MPa	17400 psi	50%RH; ISO 527-1/-2
	180 MPa	26100 psi	DAM; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	DAM; ISO 527-1/-2
	7.0 %	7.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	6.10 GPa	885 ksi	50%RH; ISO 527-1/-2
	8.40 GPa	1220 ksi	DAM; ISO 527-1/-2
	3.174 GPa @Temperature 170 °C	460.4 ksi @Temperature 338 °F	DAM; Dynamic; ISO 11403-1 -2
	3.986 GPa @Temperature 110 °C	578.1 ksi @Temperature 230 °F	DAM; Dynamic; ISO 11403-1 -2
	7.555 GPa @Temperature 30.0 °C	1096 ksi @Temperature 86.0 °F	DAM; Dynamic; ISO 11403-1 -2
	7.701 GPa @Temperature -20.0 °C	1117 ksi @Temperature -4.00 °F	DAM; Dynamic; ISO 11403-1 -2
	8.133 GPa @Temperature -70.0 °C	1180 ksi @Temperature -94.0 °F	DAM; Dynamic; ISO 11403-1 -2
	8.485 GPa @Temperature -100 °C	1231 ksi @Temperature -148 °F	DAM; Dynamic; ISO 11403-1 -2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	DAM; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	50%RH; ISO 179/1eU
	4.50 J/cm ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	50%RH; ISO 179/1eU
	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	DAM; ISO 179/1eA

Mechanical Properties	1.10 J/cm ² Metric	8.23 ft-lb/in ² English	50%RH; ISO 179/1eA Comments
	0.700 J/cm ²	3.33 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 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	33.0 µm/m-°C	18.3 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	112 µm/m-°C	62.2 µin/in-°F	DAM; ISO 11359-1/-2
Specific Heat Capacity	2.09 J/g-°C	0.500 BTU/lb-°F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft ² -°F	of melt
Melting Point	262 °C	504 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	261 °C	502 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	252 °C	486 °F	DAM; ISO 75-1/-2
Vicat Softening Point	257 °C	495 °F	DAM; 50°C/h 50N; ISO 306
Glass Transition Temp, Tg	80.0 °C	176 °F	DAM; 10°C/min; ISO 11357-1/-2
Flame Spread	26 mm/min	1.0 in/min	ISO 3795 (FMVSS 302)
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DAM; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	50%RH; IEC 60093
Dielectric Constant	3.6	3.6	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0070	0.0070	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	400 V	400 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
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Additives Descriptive Properties	Lubricants Value	Comments
	Release agent	
Delivery Form	Pellets	
Odour	class 3.5	VDA 270
Part Marking Code	>PA66-GF25<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA66-GF25	
Special Characteristics	Heat stabilised or stable to heat	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China