DuPont Performance Polymers Zytel® 70G25HSL NC010 Nylon 66 (Unverified Data**)

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

Material Notes:

Zytel® 70G25HSL NC010 is a 25% glass fiber reinforced, heat stabilized 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-70G25HSL-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in³	DAM; ISO 1183
Water Absorption	2.0 % @Temperature 23.0 °C	2.0 % @Temperature 73.4 °F	Equilibrium 50%RH; DAM; ISO 62, Similar to
	6.4 % @Temperature 23.0 °C	6.4 % @Temperature 73.4 °F	Saturation, immersed; DAM; ISO 62, Similar to
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm @Thickness 2.00 mm	0.011 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	87	87	50%RH; ISO 2039/2
	103	103	DAM; ISO 2039/2
Hardness, Rockwell R	116	116	50%RH; ISO 2039/2
	123	123	DAM; ISO 2039/2
Tensile Strength at Break	115 MPa @Temperature 23.0 °C	16700 psi @Temperature 73.4 °F	50%RH; ISO 527
	188 MPa @Temperature 23.0 °C	27300 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	3.1 % @Temperature 23.0 °C	3.1 % @Temperature 73.4 °F	DAM; ISO 527
	5.0 %	5.0 %	50%RH; ISO 527

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	6.10 GPa @Temperature 23.0 °C	885 ksi @Temperature 73.4 °F	50%RH; ISO 527
	8.60 GPa @Temperature 23.0 °C	1250 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Strength	165 MPa @Temperature 23.0 °C	23900 psi @Temperature 73.4 °F	50%RH; ISO 178
	240 MPa @Temperature 23.0 °C	34800 psi @Temperature 73.4 °F	DAM; ISO 178
Shear Modulus	0.265 GPa @Temperature 250 °C	38.4 ksi @Temperature 482 °F	DAM; ISO 6721
	0.348 GPa @Temperature 240 °C	50.5 ksi @Temperature 464 °F	DAM; ISO 6721
	0.395 GPa @Temperature 230 °C	57.3 ksi @Temperature 446 °F	DAM; ISO 6721
	0.426 GPa @Temperature 220 °C	61.8 ksi @Temperature 428 °F	DAM; ISO 6721
	0.448 GPa @Temperature 210 °C	65.0 ksi @Temperature 410 °F	DAM; ISO 6721
	0.464 GPa @Temperature 200 °C	67.3 ksi @Temperature 392 °F	DAM; ISO 6721
	0.479 GPa @Temperature 190 °C	69.5 ksi @Temperature 374 °F	DAM; ISO 6721
	0.495 GPa @Temperature 180 °C	71.8 ksi @Temperature 356 °F	DAM; ISO 6721
	0.510 GPa @Temperature 170 °C	74.0 ksi @Temperature 338 °F	DAM; ISO 6721
	0.524 GPa @Temperature 160 °C	76.0 ksi @Temperature 320 °F	DAM; ISO 6721
	0.539 GPa @Temperature 150 °C	78.2 ksi @Temperature 302 °F	DAM; ISO 6721

Mechanical Properties	Metric	English	Comments
	0.556 GPa @Temperature 140 °C	80.6 ksi @Temperature 284 °F	DAM; ISO 6721
	0.575 GPa @Temperature 130 °C	83.4 ksi @Temperature 266 °F	DAM; ISO 6721
	0.597 GPa @Temperature 120 °C	86.6 ksi @Temperature 248 °F	DAM; ISO 6721
	0.628 GPa @Temperature 110 °C	91.1 ksi @Temperature 230 °F	DAM; ISO 6721
	0.676 GPa @Temperature 100 °C	98.0 ksi @Temperature 212 °F	DAM; ISO 6721
	0.754 GPa @Temperature 90.0 °C	109 ksi @Temperature 194 °F	DAM; ISO 6721
	0.878 GPa @Temperature 80.0 °C	127 ksi @Temperature 176 °F	DAM; ISO 6721
	1.05 GPa @Temperature 70.0 °C	152 ksi @Temperature 158 °F	DAM; ISO 6721
	1.29 GPa @Temperature 60.0 °C	187 ksi @Temperature 140 °F	DAM; ISO 6721
	1.60 GPa @Temperature 50.0 °C	232 ksi @Temperature 122 °F	DAM; ISO 6721
	1.72 GPa @Temperature 40.0 °C	249 ksi @Temperature 104 °F	DAM; ISO 6721
	1.78 GPa @Temperature 30.0 °C	258 ksi @Temperature 86.0 °F	DAM; ISO 6721
	1.83 GPa @Temperature 20.0 °C	265 ksi @Temperature 68.0 °F	DAM; ISO 6721
	1.87 GPa @Temperature 10.0 °C	271 ksi @Temperature 50.0 °F	DAM; ISO 6721
	1.90 GPa @Temperature 0.000 °C	276 ksi @Temperature 32.0 °F	DAM; ISO 6721
	1.91 GPa	277 ksi	

Mechanical Properties	Metric	English	Comments
	@Temperature -10.0 °C	@Temperature 14.0 °F	DAM; ISO 6721
	1.92 GPa @Temperature -20.0 °C	278 ksi @Temperature -4.00 °F	DAM; ISO 6721
	1.93 GPa @Temperature -30.0 °C	280 ksi @Temperature -22.0 °F	DAM; ISO 6721
	1.96 GPa @Temperature -40.0 °C	284 ksi @Temperature -40.0 °F	DAM; ISO 6721
	1.99 GPa @Temperature -50.0 °C	289 ksi @Temperature -58.0 °F	DAM; ISO 6721
Izod Impact, Notched (ISO)	8.00 kJ/m² @Temperature -30.0 °C	3.81 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 180/1A
	8.00 kJ/m² @Temperature -30.0 °C	3.81 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 180/1A
	10.0 kJ/m² @Temperature 23.0 °C	4.76 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 180/1A
	11.0 kJ/m² @Temperature 23.0 °C	5.23 ft-lb/in² @Temperature 73.4 °F	50%RH; ISO 180/1A
Charpy Impact Unnotched	4.70 J/cm² @Temperature -30.0 °C	22.4 ft-lb/in² @Temperature -22.0 °F	50%RH; ISO 179/1eU
	5.30 J/cm² @Temperature -30.0 °C	25.2 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 179/1eU
	6.50 J/cm² @Temperature 23.0 °C	30.9 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eU
	8.50 J/cm² @Temperature 23.0 °C	40.4 ft-lb/in² @Temperature 73.4 °F	50%RH; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm² @Temperature -30.0 °C	4.76 ft-lb/in² @Temperature -22.0 °F	DAM; ISO 179/1eA
	1.00 J/cm² @Temperature 23.0 °C	4.76 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eA
	1.10 J/cm²	5.23 ft-lb/in²	50%RH; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C 1.20 J/cm²	@Temperature -22.0 °F 5.71 ft-lb/in²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	50%RH; ISO 179/1eA
Tensile Creep Modulus, 1 hour	5000 MPa @Temperature 23.0 °C	725000 psi @Temperature 73.4 °F	50%RH; ISO 899
Tensile Creep Modulus, 1000 hours	4100 MPa @Temperature 23.0 °C	595000 psi @Temperature 73.4 °F	50%RH; ISO 899

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm @Temperature 23.0 °C	1.00e+11 ohm-cm @Temperature 73.4 °F	50%RH; IEC 60093
	>= 1.00e+15 ohm-cm @Temperature 23.0 °C	>= 1.00e+15 ohm-cm @Temperature 73.4 °F	DAM; IEC 60093
	1.00e+17 ohm-cm @Temperature 23.0 °C	1.00e+17 ohm-cm @Temperature 73.4 °F	DAM; IEC 60093
Surface Resistance	1.00e+13 ohm @Temperature 23.0 °C	1.00e+13 ohm @Temperature 73.4 °F	50%RH; IEC 60093
	>= 1.00e+15 ohm @Temperature 23.0 °C	>= 1.00e+15 ohm @Temperature 73.4 °F	DAM; IEC 60093

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