

DuPont Performance Polymers Zytel® 70G35HSLRA4 BK267 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

35% Glass Reinforced Heat Stabilized Hydrolysis Resistant Polyamide 66 Zytel 70G35HSLRA4 BK267 is a 35% glass fiber reinforced heat stabilized hydrolysis resistant polyamide 66 resin for injection molding. It has excellent flow characteristics. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35HSLRA4-BK267-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	
	1.41 g/cc	0.0509 lb/in ³	DAM; ISO 1183
Water Absorption	5.5 %	5.5 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	1.70 %	1.70 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity	41310 cP	41310 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 305 °C	@Shear Rate 5000 1/s, Temperature 581 °F	
	52970 cP	52970 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 295 °C	@Shear Rate 5000 1/s, Temperature 563 °F	
	69630 cP	69630 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 285 °C	@Shear Rate 5000 1/s, Temperature 545 °F	
	116900 cP	116900 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 305 °C	@Shear Rate 500 1/s, Temperature 581 °F	
	151000 cP	151000 cP	ISO 11403-1 -2
@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F		
199400 cP	199400 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 285 °C	@Shear Rate 500 1/s, Temperature 545 °F		
	96 cm ³ /g	96 cm ³ /g	DAM; formic acid 90%; ISO 307 1157

Physical Properties	Metric	English	1628 Comments
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	50%RH; ISO 527-1/-2
	210 MPa	30500 psi	DAM; ISO 527-1/-2
Tensile Stress	7.57 MPa	1100 psi	DAM; ISO 11403-1 -2
	@Strain 0.190 %, Temperature 180 °C	@Strain 0.190 %, Temperature 356 °F	
	9.40 MPa	1360 psi	50%RH; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 150 °C	@Strain 0.240 %, Temperature 302 °F	
	11.31 MPa	1640 psi	DAM; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 150 °C	@Strain 0.240 %, Temperature 302 °F	
	12.29 MPa	1783 psi	50%RH; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 90.0 °C	@Strain 0.220 %, Temperature 194 °F	
	14.78 MPa	2144 psi	50%RH; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 40.0 °C	@Strain 0.220 %, Temperature 104 °F	
	14.84 MPa	2152 psi	DAM; ISO 11403-1 -2
	@Strain 0.230 %, Temperature 90.0 °C	@Strain 0.230 %, Temperature 194 °F	
	20.64 MPa	2994 psi	50%RH; ISO 11403-1 -2
	@Strain 0.250 %, Temperature 23.0 °C	@Strain 0.250 %, Temperature 73.4 °F	
	21.75 MPa	3155 psi	DAM; ISO 11403-1 -2
	@Strain 0.200 %, Temperature 40.0 °C	@Strain 0.200 %, Temperature 104 °F	
	23.57 MPa	3419 psi	50%RH; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 0.000 °C	@Strain 0.220 %, Temperature 32.0 °F	
	27.1 MPa	3930 psi	DAM; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 23.0 °C	@Strain 0.220 %, Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	31.13 MPa	4503 psi	
	@Strain 1.12 %, Temperature 180 °C	@Strain 1.12 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	31.31 MPa	4541 psi	
	@Strain 0.240 %, Temperature 0.000 °C	@Strain 0.240 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	31.42 MPa	4557 psi	
	@Strain 0.250 %, Temperature -20.0 °C	@Strain 0.250 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	32.5 MPa	4710 psi	
	@Strain 0.210 %, Temperature -20.0 °C	@Strain 0.210 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	38.19 MPa	5539 psi	
	@Strain 1.54 %, Temperature 150 °C	@Strain 1.54 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	41.14 MPa	5967 psi	
	@Strain 1.27 %, Temperature 150 °C	@Strain 1.27 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	49.0 MPa	7110 psi	
	@Strain 1.25 %, Temperature 90.0 °C	@Strain 1.25 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	50.16 MPa	7275 psi	
	@Strain 2.58 %, Temperature 180 °C	@Strain 2.58 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	53.95 MPa	7825 psi	
	@Strain 3.02 %, Temperature 150 °C	@Strain 3.02 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	57.94 MPa	8404 psi	
	@Strain 1.09 %, Temperature 40.0 °C	@Strain 1.09 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	61.81 MPa	8965 psi	
	@Strain 1.32 %, Temperature 90.0 °C	@Strain 1.32 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	62.41 MPa	9052 psi	
	@Strain 2.64 %, Temperature 150 °C	@Strain 2.64 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	62.67 MPa	9090 psi	
			DAM; ISO 11403-1 -2

Mechanical Properties	@Strain 4.34 %, Metric Temperature 180 °C	@Strain 4.34 %, English Temperature 356 °F	Comments
	62.83 MPa	9113 psi	
	@Strain 4.58 %, Temperature 150 °C	@Strain 4.58 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	69.8 MPa	10100 psi	
	@Strain 1.12 %, Temperature 23.0 °C	@Strain 1.12 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	72.16 MPa	10470 psi	
	@Strain 0.730 %, Temperature 40.0 °C	@Strain 0.730 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	72.26 MPa	10480 psi	
	@Strain 2.48 %, Temperature 90.0 °C	@Strain 2.48 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	74.09 MPa	10750 psi	
	@Strain 0.770 %, Temperature 0.000 °C	@Strain 0.770 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	75.8 MPa	11000 psi	
	@Strain 4.27 %, Temperature 150 °C	@Strain 4.27 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	77.8 MPa	11300 psi	
	@Strain 0.640 %, Temperature 0.000 °C	@Strain 0.640 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	78.57 MPa	11400 psi	
	@Strain 0.680 %, Temperature 23.0 °C	@Strain 0.680 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	83.47 MPa	12110 psi	
	@Strain 3.85 %, Temperature 90.0 °C	@Strain 3.85 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	86.45 MPa	12540 psi	
	@Strain 2.02 %, Temperature 40.0 °C	@Strain 2.02 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	87.11 MPa	12630 psi	
	@Strain 0.660 %, Temperature -20.0 °C	@Strain 0.660 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	88.88 MPa	12890 psi	
	@Strain 2.47 %, Temperature 90.0 °C	@Strain 2.47 %, Temperature 194 °F	DAM; ISO 11403-1 -2

Mechanical Properties	96.04 MPa Metric	13930 psi English	Comments 50%RH; ISO 11403-1 -2
	@Strain 0.820 %, Temperature -20.0 °C	@Strain 0.820 %, Temperature -4.00 °F	
	97.01 MPa	14070 psi	50%RH; ISO 11403-1 -2
	@Strain 1.88 %, Temperature 23.0 °C	@Strain 1.88 %, Temperature 73.4 °F	
	104.59 MPa	15170 psi	DAM; ISO 11403-1 -2
	@Strain 3.68 %, Temperature 90.0 °C	@Strain 3.68 %, Temperature 194 °F	
	104.61 MPa	15172 psi	50%RH; ISO 11403-1 -2
	@Strain 3.10 %, Temperature 40.0 °C	@Strain 3.10 %, Temperature 104 °F	
	109.16 MPa	15832 psi	50%RH; ISO 11403-1 -2
	@Strain 1.30 %, Temperature 0.000 °C	@Strain 1.30 %, Temperature 32.0 °F	
	110.82 MPa	16073 psi	DAM; ISO 11403-1 -2
	@Strain 1.29 %, Temperature 40.0 °C	@Strain 1.29 %, Temperature 104 °F	
	116.89 MPa	16953 psi	DAM; ISO 11403-1 -2
	@Strain 1.02 %, Temperature 0.000 °C	@Strain 1.02 %, Temperature 32.0 °F	
	117.58 MPa	17054 psi	50%RH; ISO 11403-1 -2
	@Strain 2.80 %, Temperature 23.0 °C	@Strain 2.80 %, Temperature 73.4 °F	
	121.29 MPa	17592 psi	DAM; ISO 11403-1 -2
	@Strain 1.14 %, Temperature 23.0 °C	@Strain 1.14 %, Temperature 73.4 °F	
	130.46 MPa	18922 psi	DAM; ISO 11403-1 -2
	@Strain 1.05 %, Temperature -20.0 °C	@Strain 1.05 %, Temperature -4.00 °F	
	132.35 MPa	19196 psi	50%RH; ISO 11403-1 -2
	@Strain 1.22 %, Temperature -20.0 °C	@Strain 1.22 %, Temperature -4.00 °F	
	138.12 MPa	20033 psi	DAM; ISO 11403-1 -2
	@Strain 1.86 %, Temperature 40.0 °C	@Strain 1.86 %, Temperature 104 °F	
	141.14 MPa	20471 psi	50%RH; ISO 11403-1 -2
	@Strain 1.92 %,	@Strain 1.92 %,	

Mechanical Properties	Temperature 0.000 °C Metric	Temperature 32.0 °F English	Comments
	157.62 MPa	22861 psi	DAM; ISO 11403-1 -2
	@Strain 1.64 %, Temperature 23.0 °C	@Strain 1.64 %, Temperature 73.4 °F	
	159.83 MPa	23181 psi	DAM; ISO 11403-1 -2
	@Strain 1.53 %, Temperature 0.000 °C	@Strain 1.53 %, Temperature 32.0 °F	

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