

## DuPont Performance Polymers Zytel® 70G35HSRX BK099 Nylon 66 (Unverified Data\*\*)

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

### Material Notes:

35% Glass Reinforced Heat Stabilized Polyamide 66 Zytel 70G35HSRX BK099 a 35% glass reinforced heat stabilized hydrolysis resistant PA66 for injection molding. Developed for applications designed for direct overmolding of gaskets onto thermoplastic parInformation provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-70G35HSRX-BK099-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-70G35HSRX-BK099-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	
	1.41 g/cc	0.0509 lb/in <sup>3</sup>	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	66620 cP	66620 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 305 °C	@Shear Rate 5000 1/s, Temperature 581 °F	
	81170 cP	81170 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 295 °C	@Shear Rate 5000 1/s, Temperature 563 °F	
	100580 cP	100580 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 285 °C	@Shear Rate 5000 1/s, Temperature 545 °F	
	200700 cP	200700 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 305 °C	@Shear Rate 500 1/s, Temperature 581 °F	
253900 cP	253900 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F		
323800 cP	323800 cP	ISO 11403-1 -2	
@Shear Rate 500 1/s, Temperature 285 °C	@Shear Rate 500 1/s, Temperature 545 °F		
Viscosity Test	150 cm <sup>3</sup> /g	150 cm <sup>3</sup> /g	DAM; ISO 307 1157 1628

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 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
Ball Indentation Hardness	285 MPa	41300 psi	DAM; H 961/30; ISO 2039-1
Tensile Strength at Break	150 MPa	21800 psi	50%RH; ISO 527-1/-2
	210 MPa	30500 psi	DAM; ISO 527-1/-2
Tensile Stress	7.49 MPa	1090 psi	50%RH; ISO 11403-1 -2
	@Strain 0.190 %, Temperature 150 °C	@Strain 0.190 %, Temperature 302 °F	
	9.23 MPa	1340 psi	DAM; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 180 °C	@Strain 0.220 %, Temperature 356 °F	
	12.19 MPa	1768 psi	50%RH; ISO 11403-1 -2
	@Strain 0.220 %, Temperature 90.0 °C	@Strain 0.220 %, Temperature 194 °F	
	14.47 MPa	2099 psi	DAM; ISO 11403-1 -2
	@Strain 0.240 %, Temperature 90.0 °C	@Strain 0.240 %, Temperature 194 °F	
	16.86 MPa	2445 psi	50%RH; ISO 11403-1 -2
	@Strain 0.250 %, Temperature 40.0 °C	@Strain 0.250 %, Temperature 104 °F	
	17.67 MPa	2563 psi	50%RH; ISO 11403-1 -2
	@Strain 0.230 %, Temperature 23.0 °C	@Strain 0.230 %, Temperature 73.4 °F	
	18.42 MPa	2672 psi	DAM; ISO 11403-1 -2
	@Strain 0.400 %, Temperature 150 °C	@Strain 0.400 %, Temperature 302 °F	
	28.36 MPa	4113 psi	50%RH; ISO 11403-1 -2
	@Strain 0.290 %, Temperature 0.000 °C	@Strain 0.290 %, Temperature 32.0 °F	
	28.62 MPa	4151 psi	DAM; ISO 11403-1 -2
	@Strain 0.260 %, Temperature 40.0 °C	@Strain 0.260 %, Temperature 104 °F	
	32.65 MPa	4735 psi	50%RH; ISO 11403-1 -2
	@Strain 1.13 %,	@Strain 1.13 %,	

Mechanical Properties	Temperature 150 °C Metric	Temperature 302 °F English	Comments
	39.21 MPa @Strain 0.310 %, Temperature 0.000 °C	5687 psi @Strain 0.310 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	40.07 MPa @Strain 0.900 %, Temperature 90.0 °C	5812 psi @Strain 0.900 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	42.44 MPa @Strain 1.61 %, Temperature 180 °C	6155 psi @Strain 1.61 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	46.29 MPa @Strain 0.360 %, Temperature -20.0 °C	6714 psi @Strain 0.360 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	50.25 MPa @Strain 1.49 %, Temperature 150 °C	7288 psi @Strain 1.49 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	50.93 MPa @Strain 1.01 %, Temperature 90.0 °C	7387 psi @Strain 1.01 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	51.91 MPa @Strain 0.780 %, Temperature 23.0 °C	7529 psi @Strain 0.780 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	52.11 MPa @Strain 0.920 %, Temperature 40.0 °C	7558 psi @Strain 0.920 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	52.39 MPa @Strain 2.42 %, Temperature 150 °C	7599 psi @Strain 2.42 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	60.88 MPa @Strain 3.24 %, Temperature 180 °C	8830 psi @Strain 3.24 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	63.15 MPa @Strain 0.560 %, Temperature 23.0 °C	9159 psi @Strain 0.560 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	65.51 MPa @Strain 4.00 %, Temperature 150 °C	9501 psi @Strain 4.00 %, Temperature 302 °F	50%RH; ISO 11403-1 -2
	66.01 MPa	9574 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 1.85 %, Temperature 90.0 °C	@Strain 1.85 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	66.32 MPa	9619 psi	
	@Strain 0.490 %, Temperature -20.0 °C	@Strain 0.490 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	69.5 MPa	10100 psi	
	@Strain 0.760 %, Temperature 0.000 °C	@Strain 0.760 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	72.35 MPa	10490 psi	
	@Strain 5.03 %, Temperature 180 °C	@Strain 5.03 %, Temperature 356 °F	DAM; ISO 11403-1 -2
	72.59 MPa	10530 psi	
	@Strain 2.90 %, Temperature 150 °C	@Strain 2.90 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	74.0 MPa	10700 psi	
	@Strain 0.700 %, Temperature 40.0 °C	@Strain 0.700 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	80.93 MPa	11740 psi	
	@Strain 1.99 %, Temperature 90.0 °C	@Strain 1.99 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	84.39 MPa	12240 psi	
	@Strain 3.11 %, Temperature 90.0 °C	@Strain 3.11 %, Temperature 194 °F	50%RH; ISO 11403-1 -2
	84.44 MPa	12250 psi	
	@Strain 1.79 %, Temperature 40.0 °C	@Strain 1.79 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	86.41 MPa	12530 psi	
	@Strain 4.58 %, Temperature 150 °C	@Strain 4.58 %, Temperature 302 °F	DAM; ISO 11403-1 -2
	87.82 MPa	12740 psi	
	@Strain 1.57 %, Temperature 23.0 °C	@Strain 1.57 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	93.47 MPa	13560 psi	
	@Strain 0.820 %, Temperature -20.0 °C	@Strain 0.820 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	97.09 MPa	14080 psi	
	@Strain 0.810 %, Temperature 0.000 °C	@Strain 0.810 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2

Mechanical Properties	Metric MPa	English psi	Comments
	@Strain 3.18 %, Temperature 90.0 °C	@Strain 3.18 %, Temperature 194 °F	DAM; ISO 11403-1 -2
	<b>108.13 MPa</b>	<b>15683 psi</b>	
	@Strain 2.82 %, Temperature 40.0 °C	@Strain 2.82 %, Temperature 104 °F	50%RH; ISO 11403-1 -2
	<b>108.59 MPa</b>	<b>15750 psi</b>	
	@Strain 1.31 %, Temperature 0.000 °C	@Strain 1.31 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	<b>110.68 MPa</b>	<b>16053 psi</b>	
	@Strain 1.02 %, Temperature 23.0 °C	@Strain 1.02 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	<b>115.45 MPa</b>	<b>16745 psi</b>	
	@Strain 2.44 %, Temperature 23.0 °C	@Strain 2.44 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	<b>116.32 MPa</b>	<b>16871 psi</b>	
	@Strain 1.23 %, Temperature 40.0 °C	@Strain 1.23 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	<b>125.68 MPa</b>	<b>18228 psi</b>	
	@Strain 0.990 %, Temperature -20.0 °C	@Strain 0.990 %, Temperature -4.00 °F	DAM; ISO 11403-1 -2
	<b>136.46 MPa</b>	<b>19792 psi</b>	
	@Strain 1.30 %, Temperature -20.0 °C	@Strain 1.30 %, Temperature -4.00 °F	50%RH; ISO 11403-1 -2
	<b>145.9 MPa</b>	<b>21160 psi</b>	
	@Strain 2.02 %, Temperature 0.000 °C	@Strain 2.02 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	<b>146.62 MPa</b>	<b>21265 psi</b>	
	@Strain 1.32 %, Temperature 0.000 °C	@Strain 1.32 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	<b>153.73 MPa</b>	<b>22297 psi</b>	
	@Strain 1.55 %, Temperature 23.0 °C	@Strain 1.55 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	<b>154.52 MPa</b>	<b>22411 psi</b>	
	@Strain 1.95 %, Temperature 40.0 °C	@Strain 1.95 %, Temperature 104 °F	DAM; ISO 11403-1 -2
	<b>176.66 MPa</b>	<b>25622 psi</b>	
			DAM; ISO 11403-1 -2

Mechanical Properties	Metric @Strain 1.55 %, Temperature -20.0 °C	English @Strain 1.55 %, Temperature -4.00 °F	Comments
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