

## DuPont Performance Polymers Zytel® 7335F NC010 Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Zytel® 7335F NC010 is a nucleated, lubricated 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-7335F-NC010-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-7335F-NC010-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	DAM; ISO 1183
Water Absorption	3.0 %	3.0 %	Equilibrium 50%RH; DAM; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.0 %	9.0 %	Saturation, immersed; DAM; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	DAM
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.010 cm/cm	0.010 in/in	DAM
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	9.0 %	9.0 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15 %	15 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	50mm/min, 50%RH, ISO 527
	>= 50 %	>= 50 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	3.8 %	3.8 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	24 %	24 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	1.40 GPa	203 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.60 GPa	522 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.0 J/cm <sup>2</sup>	52.3 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	12.0 J/cm <sup>2</sup>	57.1 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.250 J/cm <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.450 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
	500 µm/m-°C	278 µin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature 23.0 - 55.0 °C	English @Temperature 73.4 - 131 °F	DAM; ASTM E 831 Comments
	500 µm/m-°C	278 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	92.0 µm/m-°C	51.1 µin/in-°F	DAM; ASTM E 831
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
	92.0 µm/m-°C	51.1 µin/in-°F	DAM; ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	221 °C	430 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	DAM; ISO 75-1/-2
Flammability, UL94	HB	HB	DAM; UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	50%RH; ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00e+11 ohm-cm	1.00e+11 ohm-cm	50%RH; IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	DAM; IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00e+17 ohm-cm	1.00e+17 ohm-cm	DAM; ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00e+17 ohm-cm	1.00e+17 ohm-cm	DAM; IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	50%RH; ASTM D257
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.00e+11 ohm	1.00e+11 ohm	

Electrical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; IEC 60093 Comments
	1.00e+13 ohm @Temperature 23.0 °C	1.00e+13 ohm @Temperature 73.4 °F	DAM; ASTM D257
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	3.3 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	DAM; ASTM D150
	3.6 @Frequency 100 Hz, Temperature 23.0 °C	3.6 @Frequency 100 Hz, Temperature 73.4 °F	DAM; ASTM D150
	3.6 @Frequency 1000 Hz, Temperature 23.0 °C	3.6 @Frequency 1000 Hz, Temperature 73.4 °F	DAM; ASTM D150
	4.2 @Frequency 100 Hz, Temperature 23.0 °C	4.2 @Frequency 100 Hz, Temperature 73.4 °F	DAM; IEC 60250
Dielectric Strength	13.5 kV/mm @Thickness 3.20 mm, Temperature 23.0 °C	343 kV/in @Thickness 0.126 in, Temperature 73.4 °F	50%RH; Short Time; ASTM D149
	16.3 kV/mm @Thickness 3.20 mm, Temperature 23.0 °C	414 kV/in @Thickness 0.126 in, Temperature 73.4 °F	DAM; Short Time; ASTM D149
Dissipation Factor	0.010 @Frequency 1000 Hz, Temperature 23.0 °C	0.010 @Frequency 1000 Hz, Temperature 73.4 °F	DAM; ASTM D150
	0.010 @Frequency 100 Hz, Temperature 23.0 °C	0.010 @Frequency 100 Hz, Temperature 73.4 °F	DAM; ASTM D150
	0.020 @Frequency 1.00e+6 Hz, Temperature 23.0 °C	0.020 @Frequency 1.00e+6 Hz, Temperature 73.4 °F	DAM; ASTM D150
	0.030 @Frequency 100 Hz, Temperature 23.0 °C	0.030 @Frequency 100 Hz, Temperature 73.4 °F	DAM; IEC 60250
	0.11 @Frequency 1.00e+6 Hz,	0.11 @Frequency 1.00e+6 Hz,	50%RH; ASTM D150

Electrical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
	0.23	0.23	50%RH; ASTM D150
	@Frequency 1000 Hz, Temperature 23.0 °C	@Frequency 1000 Hz, Temperature 73.4 °F	
	0.37	0.37	50%RH; ASTM D150
	@Frequency 100 Hz, Temperature 23.0 °C	@Frequency 100 Hz, Temperature 73.4 °F	
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	DAM
	270 °C	518 °F	DAM; Optimum
Mold Temperature	70.0 °C	158 °F	DAM; optimum
	50.0 - 90.0 °C	122 - 194 °F	DAM
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Additive	Lubricant	DAM
Appearance	Natural Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Fatigue Resistant	DAM
	Fuel Resistant	DAM
	General Purpose	DAM
	Grease Resistant	DAM
	Mold Release, Good	DAM
	Nucleated	DAM
	Oil Resistant	DAM

Descriptive Properties	Value	Comments
Generic	Nylon 6	DAM
Material Status	Current	DAM
Part Marking Code	>PA6<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA6	DAM
Processing Method	Injection Molding	DAM
Product Category	Unreinforced Resins	DAM
Resin Identification	PA6	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Ultrasonic Weldable	Yes	DAM
Uses	Appliance Components	DAM
	Automotive Applications	DAM
	Electrical/Electronic Applications	DAM

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