

DuPont Performance Polymers Zytel® FG7301 NC010 Nylon 6 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Zytel® FG7301 NC010 is a general purpose, unlubricated polyamide 6 resin for extrusion applications. It has been developed for consideration into applications such as parts for the food industry. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FG7301-NC010-Nylon-6-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in³	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	
	9.5 %	9.5 %	Saturation, immersed; DAM; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Flow; DAM
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80.0 MPa	11600 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	25 %	25 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	50 %	50 %	50mm/min; DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 100 %	>= 100 %	50mm/min; 50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.5 %	4.5 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	1.50 GPa	218 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric ^{Pa}	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	2.30 GPa	334 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Unnotched (ISO)	NB	NB	50%RH; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	50%RH; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	DAM; ISO 179/1eU
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	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	100 µm/m-°C	55.6 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)	160 °C	320 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 °C	446 °F	DAM; Optimum; Extrusion

Processing Properties	Metric240 °C	English34 °F	Comments
	260 - 280 °C	500 - 536 °F	DAM; Injection Molding
	270 °C	518 °F	DAM; Optimum; Injection Molding
Mold Temperature	70.0 °C	158 °F	DAM; optimum; Injection Molding
	50.0 - 90.0 °C	122 - 194 °F	DAM; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Injection Molding
	80.0 °C	176 °F	DAM; Extrusion
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM; Injection Molding
	4.00 - 6.00 hour	4.00 - 6.00 hour	DAM; Extrusion
Moisture Content	<= 0.040 %	<= 0.040 %	DAM; Extrusion
	<= 0.20 %	<= 0.20 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Features	Food Contact Acceptable	DAM
Forms	Pellets	DAM
Generic	Nylon 6	DAM
Material Status	Current	DAM
Part Marking Code	>PA6<	ISO 11469; DAM
Processing Method	Extrusion	DAM
Product Category	Extrusion Resins	DAM
	Food Contact Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Food Applications, Non-specific	DAM
	Food Applications, Non-specific	DAM

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