

DuPont Performance Polymers Zytel® FN718 NC010A Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® FN718 NC010A is a flexible, plasticizer free modified polyamide 66 resin having good heat aging and chemical resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FN718-NC010A-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	>= 50 %	>= 50 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	125 %	125 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	150 %	150 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	1.05 GPa	152 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	1.05 GPa	152 ksi	DAM; ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	35.0 kJ/m ²	16.7 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	NB	NB	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.50 J/cm ²	35.7 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	DAM; ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	285 °C	545 °F	DAM; Optimum; Injection Molding
	275 - 295 °C	527 - 563 °F	DAM; Injection Molding
Mold Temperature	60.0 °C	140 °F	DAM; optimum; Injection Molding
	40.0 - 80.0 °C	104 - 176 °F	DAM; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM; Injection Molding
Moisture Content	<= 0.20 %	<= 0.20 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Current	DAM
Part Marking Code	>PA66-F<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	Extrusion Resins	DAM
	Toughened Resins	DAM
	Unreinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA66-F	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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