

DuPont Performance Polymers Zytel® FN714 NC010A Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® FN714 NC010A is an impact modified, very flexible, plasticizer free 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-FN714-NC010A-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	29.0 MPa @Temperature 23.0 °C	4210 psi @Temperature 73.4 °F	DAM; ISO 527
Tensile Strength, Yield	29.0 MPa @Temperature 23.0 °C	4210 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	>= 50 % @Temperature 23.0 °C	>= 50 % @Temperature 73.4 °F	DAM; nominal; ISO 527
	190 % @Temperature 23.0 °C	190 % @Temperature 73.4 °F	DAM; nominal; ISO 527
	220 % @Temperature 23.0 °C	220 % @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	0.475 GPa @Temperature 23.0 °C	68.9 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	0.575 GPa @Temperature 23.0 °C	83.4 ksi @Temperature 73.4 °F	DAM; ISO 178
Izod Impact, Notched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	DAM; ISO 180/1A
Charpy Impact, Notched	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	10°C/min; DAM; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	285 °C	545 °F	DAM; Optimum; Extrusion
	285 °C	545 °F	DAM; Optimum; Injection Molding
Mold Temperature	275 - 295 °C	527 - 563 °F	DAM; Extrusion
	275 - 295 °C	527 - 563 °F	DAM; Injection Molding
Drying Temperature	60.0 °C	140 °F	DAM; optimum; Injection Molding
	40.0 - 80.0 °C	104 - 176 °F	DAM; Injection Molding
Dry Time	80.0 °C	176 °F	DAM; Extrusion
	80.0 °C	176 °F	DAM; Injection Molding
Moisture Content	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	<= 0.050 %	<= 0.050 %	DAM; Extrusion
	<= 0.20 %	<= 0.20 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Features	Chemical Resistance, Good	DAM
	Chemical Resistance, Good	DAM
	Flexibility, Good	DAM
	Flexibility, Good	DAM
	Heat Aging Resistance, Good	DAM
	Heat Aging Resistance, Good	DAM
	Impact Modified	DAM
	Impact Modified	DAM
Forms	Pellets	DAM

Generic Descriptive Properties	Nylon 66 Value	DAM Comments
Material Status	Current	DAM
Part Marking Code	>PA66-F<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	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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