

DuPont Performance Polymers Zytel® FE3071 NC010 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® FE3071 NC010 is an intermediate viscosity polyamide 66 resin for injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FE3071-NC010-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	DAM; ASTM D792
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength	81.0 MPa	11700 psi	DAM; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength, Yield	82.0 MPa	11900 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	35 %	35 %	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	
	90 %	90 %	DAM; ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.0 %	4.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	3.10 GPa	450 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	2.83 GPa	410 ksi	DAM; ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	DAM; ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	DAM; ISO 180/1A

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
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
Melting Point	262 °C	504 °F	10°C/min; DAM; ISO 11357-1/-3
	262 °C	504 °F	DAM; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	DAM; ASTM D648
	70.0 °C	158 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	DAM; Optimum
	280 - 300 °C	536 - 572 °F	DAM
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	<= 0.050 %	<= 0.050 %	DAM

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Features	Chemical Resistance, Good	DAM
	Impact Resistance, Good	DAM
	Molecular Wt., Medium	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Current	DAM
Part Marking Code		ISO 11469; DAM

Descriptive Properties	~PA66~ Value	Comments
Processing Method	Extrusion	DAM
	Extrusion	DAM
	Injection Molding	DAM
Product Category	Extrusion Resins	DAM
	Unreinforced Resins	DAM
Resin Identification	PA66	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses	Filaments	DAM
	Packaging, Food	DAM

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