

DuPont Performance Polymers Zytel® FE310001 NC010 Nylon 612

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Zytel® FE310001 NC010 is a high viscosity polyamide 612 resin that is suitable for extrusion applications, such as monofilaments and tubing. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FE310001-NC010-Nylon-612.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Thickness 2.00 mm	0.013 in/in @Thickness 0.0787 in	DAM; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa @Temperature 23.0 °C	8410 psi @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	2.25 GPa @Temperature 23.0 °C	326 ksi @Temperature 73.4 °F	DAM; ISO 527
Flexural Modulus	2.00 GPa @Temperature 23.0 °C	290 ksi @Temperature 73.4 °F	DAM; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	DAM; ISO 180/1A

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	DAM; ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 240 °C	446 - 464 °F	DAM; Extrusion
	235 °C	455 °F	DAM; Optimum; Extrusion
	250 °C	482 °F	DAM; Optimum; Injection Molding

Processing Properties	Metric 290 °C	English 54 °F	Comments
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	DAM; Injection Molding
	80.0 °C	176 °F	DAM; optimum; Injection Molding
Drying Temperature	80.0 °C	176 °F	DAM; Extrusion
	80.0 °C	176 °F	DAM; Injection Molding
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	<= 0.050 %	<= 0.050 %	DAM; Extrusion
	<= 0.050 %	<= 0.050 %	DAM; Injection Molding

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Forms	Pellets	DAM
Generic	Nylon 612	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA612<	ISO 11469; DAM
Processing Method	Extrusion	DAM
Product Category	Extrusion Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA612	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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