

DuPont Performance Polymers Zytel® FG408L NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® FG408L NC010 is a general purpose, lubricated, impact modified polyamide 66 resin with superior toughness for injection molding 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-FG408L-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	DAM; ISO 1183
Water Absorption	2.2 %	2.2 %	Equilibrium 50%RH; DAM; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.0 %	7.0 %	Saturation, immersed; DAM; ISO 62, Similar to
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	Flow; DAM
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	61.0 MPa	8850 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 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.0 %	6.0 %	

Elongation at Yield Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	DAM; ISO 527 Comments
	26 % @ Temperature 23.0 °C	26 % @ Temperature 73.4 °F	50%RH; ISO 527
Tensile Modulus	1.10 GPa @ Temperature 23.0 °C	160 ksi @ Temperature 73.4 °F	50%RH; ISO 527
	2.20 GPa @ Temperature 23.0 °C	319 ksi @ Temperature 73.4 °F	DAM; ISO 527
Charpy Impact Unnotched	NB @ Temperature -30.0 °C	NB @ Temperature -22.0 °F	DAM; ISO 179/1eU
	NB @ Temperature -30.0 °C	NB @ Temperature -22.0 °F	50%RH; ISO 179/1eU
	NB @ Temperature 23.0 °C	NB @ Temperature 73.4 °F	50%RH; ISO 179/1eU
	NB @ Temperature 23.0 °C	NB @ Temperature 73.4 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ² @ Temperature -30.0 °C	3.81 ft-lb/in ² @ Temperature -22.0 °F	50%RH; ISO 179/1eA
	1.50 J/cm ² @ Temperature -30.0 °C	7.14 ft-lb/in ² @ Temperature -22.0 °F	DAM; ISO 179/1eA
	1.50 J/cm ² @ Temperature 23.0 °C	7.14 ft-lb/in ² @ Temperature 73.4 °F	DAM; ISO 179/1eA
	2.50 J/cm ² @ Temperature 23.0 °C	11.9 ft-lb/in ² @ Temperature 73.4 °F	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C @ Temperature 23.0 - 55.0 °C	278 µin/in-°F @ Temperature 73.4 - 131 °F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	132 µm/m-°C @ Temperature 23.0 - 55.0 °C	73.3 µin/in-°F @ Temperature 73.4 - 131 °F	DAM; ISO 11359-1/-2
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 (0.067 psi)	75.0 °C	165 °F	
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °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	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Appearance	Natural Color	DAM
Features	Food Contact Acceptable	DAM
	Impact Modified	DAM
	Impact Modified	DAM
	Lubricated	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Current	DAM
Part Marking Code	>PA66-I<	ISO 11469; DAM
Processing Method	Injection Molding	DAM
Product Category	Food Contact Resins	DAM
	Toughened Resins	DAM
	Unreinforced Resins	DAM
Resin Identification	PA66-I	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM
Uses		DAM

Descriptive Properties	Food Applications, Non-specific Value	Comments
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