

## DuPont Performance Polymers Zytel® FG151L NC010 Nylon 612 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

### Material Notes:

Unreinforced Polyamide 612 with Developed for Food Contact Applications Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-FG151L-NC010-Nylon-612-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FG151L-NC010-Nylon-612-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	DAM; ISO 1183
Water Absorption	3.0 % @Thickness 2.00 mm	3.0 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Moisture Absorption	1.30 % @Thickness 2.00 mm	1.30 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	50%RH; ISO 527-1/-2
	62.0 MPa	8990 psi	DAM; ISO 527-1/-2
Elongation at Break	17 %	17 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	DAM; ISO 527-1/-2
	18 %	18 %	50%RH; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	50%RH; ISO 527-1/-2
	2.40 GPa	348 ksi	DAM; ISO 527-1/-2
Flexural Modulus	1.44 GPa	209 ksi	50%RH; ISO 178
	2.10 GPa	305 ksi	DAM; ISO 178
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
	NB	NB	50%RH; ISO 179/1eU
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm <sup>2</sup>	1.67 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	0.300 J/cm <sup>2</sup> @Temperature -30.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	50%RH; ISO 179/1eA
	0.350 J/cm <sup>2</sup> @Temperature -30.0 °C	1.67 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	DAM; ISO 11359-1/-2
	90.0 µm/m-°C @Temperature -40.0 - 23.0 °C	50.0 µin/in-°F @Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
	160 µm/m-°C @Temperature 55.0 - 160 °C	88.9 µin/in-°F @Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	DAM; ISO 11359-1/-2
	90.0 µm/m-°C @Temperature -40.0 - 23.0 °C	50.0 µin/in-°F @Temperature -40.0 - 73.4 °F	DAM; ISO 11359-1/-2
	180 µm/m-°C @Temperature 55.0 - 160 °C	100 µin/in-°F @Temperature 131 - 320 °F	DAM; ISO 11359-1/-2
Melting Point	218 °C	424 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	DAM; ISO 75-1/-2
Vicat Softening Point	181 °C	358 °F	DAM; 50°C/h 50N; ISO 306
Glass Transition Temp, Tg	65.0 °C	149 °F	DAM; 10°C/min; ISO 11357-1/-2

Descriptive Properties	Value	Comments
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<b>Additives</b> Descriptive Properties	<b>Release agent</b> Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PA612<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA612	ISO 1043
Special Characteristics	Light stabilised or stable to light	

## Contact Songhan Plastic Technology Co.,Ltd.

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