

## DuPont Performance Polymers Zytel® EFE1068 NC010T Nylon 66 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Unreinforced Polyamide 66 Zytel EFE1068 NC010T is a lubricated polyamide 66 for injection molding. It has excellent flow characteristics and was developed for fast production cycles and high productivity applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-EFE1068-NC010T-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-EFE1068-NC010T-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in <sup>3</sup>	
	1.14 g/cc	0.0412 lb/in <sup>3</sup>	DAM; ISO 1183
Water Absorption	8.5 %	8.5 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	2.80 %	2.80 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.0 MPa	8560 psi	50%RH; ISO 527-1/-2
	84.0 MPa	12200 psi	DAM; ISO 527-1/-2
Elongation at Break	18 %	18 %	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
	25 %	25 %	50%RH; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	50%RH; ISO 527-1/-2
	3.00 GPa	435 ksi	DAM; ISO 527-1/-2
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DAM; ISO 180/1A
	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	50%RH; ISO 180/1A
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU

Mechanical Properties	Metric	English	50%RH: ISO 179/1eJ Comments
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.79 J/g-°C	0.667 BTU/lb-°F	
Thermal Conductivity	0.140 W/m-K	0.972 BTU-in/hr-ft <sup>2</sup> -°F	of melt
Melting Point	263 °C	505 °F	DAM; 10°C/min; ISO 11357-1/-3
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)	70.0 °C	158 °F	DAM; ISO 75-1/-2
Vicat Softening Point	257 °C	495 °F	DAM; 50°C/h 50N; ISO 306
Flammability, UL94	V-2	V-2	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	DAM; IEC 60695-11-10
	@Thickness 0.700 mm	@Thickness 0.0276 in	
Oxygen Index	24 %	24 %	DAM; ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	DAM; IEC 60093
Dielectric Strength	27.0 kV/mm	686 kV/in	DAM; IEC 60243-1
Dissipation Factor	0.010	0.010	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.010	0.010	DAM; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Additives	Lubricants	
	Release agent	
Delivery Form	Pellets	

Descriptive Properties	Value	Comments
Part Marking Code	<PA66>	ISO 11469
Processing	Injection Moulding	
Regional Availability	Europe	
	Near East/Africa	
Resin Identification	PA66	

## Contact Songhan Plastic Technology Co.,Ltd.

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