

## DuPont Performance Polymers Zytel® 80G14AHS NC010 Nylon 66 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

### Material Notes:

14% Glass Reinforced Toughened Heat Stabilized Polyamide 66 Zytel 80G14AHS NC010 is a 14% glass fiber reinforced toughened high flow heat stabilized polyamide 66 resin. It offers outstanding performance in injection molding applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-80G14AHS-NC010-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-80G14AHS-NC010-Nylon-66-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	DAM; ISO 1183
Moisture Absorption	1.90 % @Thickness 2.00 mm	1.90 % @Thickness 0.0787 in	DAM; Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.0 MPa	10400 psi	50%RH; ISO 527-1/-2
	110 MPa	16000 psi	DAM; ISO 527-1/-2
Elongation at Break	3.8 %	3.8 %	DAM; ISO 527-1/-2
	9.0 %	9.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	3.30 GPa	479 ksi	50%RH; ISO 527-1/-2
	5.00 GPa	725 ksi	DAM; ISO 527-1/-2
Flexural Modulus	3.12 GPa	453 ksi	50%RH; ISO 178
	4.40 GPa	638 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DAM; ISO 180/1A
	6.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	DAM; ISO 180/1A
Charpy Impact Unnotched	7.30 J/cm <sup>2</sup>	34.7 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eU
	7.60 J/cm <sup>2</sup>	36.2 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eU
	7.10 J/cm <sup>2</sup>	33.8 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	50%RH; ISO 179/1eJ Comments
Charpy Impact, Notched	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA
	1.70 J/cm <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	50%RH; ISO 179/1eA
	0.600 J/cm <sup>2</sup> @Temperature -40.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	50%RH; ISO 179/1eA
	0.700 J/cm <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	50%RH; ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature -30.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°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
Melting Point	263 °C	505 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	DAM; ISO 75-1/-2
Vicat Softening Point	215 °C	419 °F	DAM; 50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	DAM; IEC 60695-11-10
	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	DAM; IEC 60695-11-10
Flame Spread	44 mm/min @Thickness 1.00 mm	1.7 in/min @Thickness 0.0394 in	ISO 3795 (FMVSS 302)

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.018 @Frequency 100 Hz	0.018 @Frequency 100 Hz	50%RH; IEC 60250
	0.027 @Frequency 100 Hz	0.027 @Frequency 100 Hz	DAM; IEC 60250

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PA66-IGF14<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PA66-IGF14	
Special Characteristics	Heat stabilised or stable to heat	

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