

## DuPont Performance Polymers Zytel® FN727 NC010A Nylon 6 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Toughened Polyamide 6 Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Zytel-FN727-NC010A-Nylon-6-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-FN727-NC010A-Nylon-6-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in <sup>3</sup>	
	1.02 g/cc	0.0368 lb/in <sup>3</sup>	DAM; ISO 1183
Viscosity	57470 cP	57470 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 280 °C	@Shear Rate 5000 1/s, Temperature 536 °F	
	81230 cP	81230 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 245 °C	@Shear Rate 5000 1/s, Temperature 473 °F	
	96410 cP	96410 cP	ISO 11403-1 -2
	@Shear Rate 5000 1/s, Temperature 230 °C	@Shear Rate 5000 1/s, Temperature 446 °F	
	213500 cP	213500 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 280 °C	@Shear Rate 500 1/s, Temperature 536 °F	
	370500 cP	370500 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 245 °C	@Shear Rate 500 1/s, Temperature 473 °F	
	465400 cP	465400 cP	ISO 11403-1 -2
	@Shear Rate 500 1/s, Temperature 230 °C	@Shear Rate 500 1/s, Temperature 446 °F	
Viscosity Test	55 cm <sup>3</sup> /g	55 cm <sup>3</sup> /g	DAM; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Stress	30.0 MPa	4350 psi	DAM; ISO 527-1/-2

Mechanical Properties	@Strain 50.0 % Metric	@Strain 50.0 % English	Comments
Elongation at Break	>= 50 %	>= 50 %	DAM; ISO 527-1/-2
Tensile Modulus	0.900 GPa	131 ksi	DAM; ISO 527-1/-2
Flexural Modulus	0.880 GPa	128 ksi	DAM; ISO 178
Izod Impact, Notched (ISO)	NB	NB	DAM; ISO 180/1A
Charpy Impact, Notched	13.5 J/cm <sup>2</sup>	64.2 ft-lb/in <sup>2</sup>	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.70 J/g-°C	0.645 BTU/lb-°F	
Thermal Conductivity	0.160 W/m-K	1.11 BTU-in/hr-ft <sup>2</sup> -°F	of melt
Melting Point	221 °C	430 °F	DAM; 10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	55.0 °C	131 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	DAM; ISO 75-1/-2
Glass Transition Temp, Tg	60.0 °C	140 °F	DAM; 10°C/min; ISO 11357-1/-2

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PA6-F<	ISO 11469
Processing	Blow Moulding	
	Coatable	
	Film Extrusion	
	Injection Moulding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	

Descriptive Properties	Value	Comments
	North America	
	South and Central America	
Resin Identification	PA6-F	
	PA6-F	ISO 1043
Special Characteristics	Heat stabilised or stable to heat	

## Contact Songhan Plastic Technology Co.,Ltd.

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