

DuPont Performance Polymers Zytel® E53 NC010 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Unreinforced High Viscosity Polyamide 66 Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-E53-NC010-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ISO 1183
Water Absorption	8.5 %	8.5 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	2.70 %	2.70 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Viscosity Test	350 cm ³ /g	350 cm ³ /g	DAM; ISO 307 1157 1628
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50%RH; ISO 527-1/-2
	84.0 MPa	12200 psi	DAM; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	DAM; Nominal; ISO 527-1/-2
	>= 50 %	>= 50 %	50%RH; Nominal; ISO 527-1/-2
Elongation at Yield	4.4 %	4.4 %	DAM; ISO 527-1/-2
	30 %	30 %	50%RH; ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	50%RH; ISO 527-1/-2
	3.00 GPa	435 ksi	DAM; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	DAM; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	DAM; ISO 179/1eA
	4.00 J/cm ²	19.0 ft-lb/in ²	50%RH; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.600 J/cm ²	2.86 ft-lb/in ²	

Mechanical Properties	Metric	English	DAM: ISO 179/1eA Comments
	@ Temperature -30.0 °C	@ Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 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)	205 °C	401 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	DAM; ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	DAM; IEC 60093
Dielectric Constant	3.9	3.9	DAM; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Processing	Casting	
	Coatable	
	Film Extrusion	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
	Regional Availability	Europe
	Near East/Africa	

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