

DuPont Performance Polymers Zytel® E41HSB NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Zytel® E41HSB is an unreinforced, high viscosity, heat stabilized polyamide 66 for injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-E41HSB-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	DAM; ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	84.0 MPa	12200 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	50 %	50 %	DAM; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 50 %	>= 50 %	50%RH; nominal; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Yield	4.0 %	4.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	26 %	26 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	1.20 GPa	174 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.00 GPa	435 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric ^{l/m²}	English ^{lb/in²}	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	50%RH; ISO 180/1A
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.80 J/cm ²	8.57 ft-lb/in ²	50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	263 °C	505 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	290 °C	554 °F	DAM; Optimum
	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 °C	158 °F	DAM; optimum
	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.050 %	<= 0.050 %	DAM

Descriptive Properties	Value	Comments
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Forms	Pellets	DAM
Generic	PA66	DAM
Material Status	Preliminary Data	DAM
Processing Method	Extrusion	DAM
	Injection Molding	DAM
Product Category	Extrusion Resins	DAM
	Unreinforced Resins	DAM

Descriptive Properties	Value	Comments
------------------------	-------	----------

RoHS Compliance

Contact Manufacturer

DAM

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China