

DuPont Performance Polymers Minlon® 10B140 NC010 Nylon 66 (Unverified Data**)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

40% Mineral Reinforced Polyamide 66Minlon 10B140 NC010 is a 40% mineral reinforced polyamide 66 for injection molding. It has very low warpage. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Minlon-10B140-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	DAM; ISO 1183
Water Absorption	5.0 %	5.0 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Moisture Absorption	1.60 %	1.60 %	DAM; Sim. to ISO 62
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 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
Hardness, Rockwell M	95	95	DAM; ISO 2039-2
Hardness, Rockwell R	121	121	DAM; ISO 2039-2
Tensile Strength at Break	55.0 MPa	7980 psi	50%RH; ISO 527-1/-2
	85.0 MPa	12300 psi	DAM; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	DAM; ISO 527-1/-2
	9.0 %	9.0 %	50%RH; ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	50%RH; ISO 527-1/-2
	6.60 GPa	957 ksi	DAM; ISO 527-1/-2
Shear Modulus	0.427 GPa	61.9 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 150 °C	@Temperature 302 °F	
	0.544 GPa	78.9 ksi	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 110 °C	@Temperature 230 °F	
	1.226 GPa	177.8 ksi	

Mechanical Properties	Metric	English	Comments
	2.393 GPa @Temperature 62.0 °C	347.1 ksi @Temperature 144 °F	DAM; Dynamic; ISO 11403-1 -2
	@Temperature 10.0 °C	@Temperature 50.0 °F	
	2.504 GPa @Temperature -20.0 °C	363.2 ksi @Temperature -4.00 °F	DAM; Dynamic; ISO 11403-1 -2
	2.692 GPa @Temperature -50.0 °C	390.4 ksi @Temperature -58.0 °F	DAM; Dynamic; ISO 11403-1 -2
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	DAM; ISO 179/1eU
	5.50 J/cm ²	26.2 ft-lb/in ²	50%RH; ISO 179/1eU
	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eU
	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	50%RH; ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	DAM; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	50%RH; ISO 179/1eA
	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	50%RH; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	DAM; ISO 179/1eA
Tensile Creep Modulus, 1 hour	3500 MPa @Time 3600 sec	508000 psi @Time 1.00 hour	50%RH; ISO 899-1
Tensile Creep Modulus, 1000 hours	2100 MPa @Time 3.60e+6 sec	305000 psi @Time 1000 hour	50%RH; ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C	36.1 µin/in-°F	DAM; ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 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)	240 °C	464 °F	DAM; ISO 75-1/-2
Deflection Temperature at 1.8 MPa	170 °C	338 °F	

(264 psi) Thermal Properties	Metric	English	DAM: ISO 75-1/-2 Comments
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	DAM; IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	50%RH; IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	50%RH; IEC 60093
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	DAM; IEC 60250
	4.5 @Frequency 1.00e+6 Hz	4.5 @Frequency 1.00e+6 Hz	50%RH; IEC 60250
Dielectric Strength	4.5 @Frequency 100 Hz	4.5 @Frequency 100 Hz	DAM; IEC 60250
	9.4 @Frequency 100 Hz	9.4 @Frequency 100 Hz	50%RH; IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	DAM; IEC 60243-1
Dissipation Factor	0.011 @Frequency 100 Hz	0.011 @Frequency 100 Hz	DAM; IEC 60250
	0.023 @Frequency 1.00e+6 Hz	0.023 @Frequency 1.00e+6 Hz	DAM; IEC 60250
Comparative Tracking Index	0.055 @Frequency 1.00e+6 Hz	0.055 @Frequency 1.00e+6 Hz	50%RH; IEC 60250
	0.21 @Frequency 100 Hz	0.21 @Frequency 100 Hz	50%RH; IEC 60250
Comparative Tracking Index	575 V	575 V	DAM; IEC 60112

Descriptive Properties	Value	Comments
Part Marking Code	>PA66-MD40<	ISO 11469
Regional Availability	Europe	
	Near East/Africa	

Descriptive Properties	Value	Comments
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Resin Identification

PA66-MD40

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