

DuPont Performance Polymers Minlon® 11C40 NC010 Nylon 66 (Unverified Data**)

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

Material Notes:

40% Mineral Reinforced Polyamide 66 Minlon 11C40 NC010 is a 40% mineral reinforced heat stabilized polyamide 66 resin for injection molding. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Minlon-11C40-NC010-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	DAM; ISO 1183
Water Absorption	6.0 %	6.0 %	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	
Water Absorption at Saturation	1.1 %	1.1 %	DAM; Immersion 24h; ASTM D570
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	DAM; ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	63.0 MPa	9140 psi	50%RH; ISO 527-1/-2
	90.0 MPa	13100 psi	DAM; ISO 527-1/-2
Tensile Stress	3.93 MPa	570 psi	50%RH; ISO 11403-1 -2
	@Strain 0.500 %, Temperature 150 °C	@Strain 0.500 %, Temperature 302 °F	
	6.20 MPa	899 psi	DAM; ISO 11403-1 -2
	@Strain 0.700 %, Temperature 150 °C	@Strain 0.700 %, Temperature 302 °F	
	10.38 MPa	1505 psi	50%RH; ISO 11403-1 -2
	@Strain 1.70 %, Temperature 150 °C	@Strain 1.70 %, Temperature 302 °F	
	11.76 MPa	1706 psi	50%RH; ISO 11403-1 -2
	@Strain 0.500 %, Temperature 23.0 °C	@Strain 0.500 %, Temperature 73.4 °F	

Mechanical Properties	16.06 MPa Metric	2329 psi English	Comments 50%RH; ISO 11403-1 -2
	@Strain 3.50 %, Temperature 150 °C	@Strain 3.50 %, Temperature 302 °F	
	17.0 MPa	2470 psi	DAM; ISO 11403-1 -2
	@Strain 2.70 %, Temperature 150 °C	@Strain 2.70 %, Temperature 302 °F	
	19.0 MPa	2760 psi	50%RH; ISO 11403-1 -2
	@Strain 5.00 %, Temperature 150 °C	@Strain 5.00 %, Temperature 302 °F	
	19.43 MPa	2818 psi	DAM; ISO 11403-1 -2
	@Strain 0.300 %, Temperature -40.0 °C	@Strain 0.300 %, Temperature -40.0 °F	
	20.27 MPa	2940 psi	50%RH; ISO 11403-1 -2
	@Strain 1.00 %, Temperature 23.0 °C	@Strain 1.00 %, Temperature 73.4 °F	
	24.6 MPa	3570 psi	DAM; ISO 11403-1 -2
	@Strain 6.00 %, Temperature 150 °C	@Strain 6.00 %, Temperature 302 °F	
	27.27 MPa	3955 psi	50%RH; ISO 11403-1 -2
	@Strain 0.500 %, Temperature 0.000 °C	@Strain 0.500 %, Temperature 32.0 °F	
	29.7 MPa	4310 psi	DAM; ISO 11403-1 -2
	@Strain 13.0 %, Temperature 150 °C	@Strain 13.0 %, Temperature 302 °F	
	30.03 MPa	4355 psi	50%RH; ISO 11403-1 -2
	@Strain 1.90 %, Temperature 23.0 °C	@Strain 1.90 %, Temperature 73.4 °F	
	30.3 MPa	4390 psi	DAM; ISO 11403-1 -2
	@Strain 0.500 %, Temperature 0.000 °C	@Strain 0.500 %, Temperature 32.0 °F	
	33.3 MPa	4830 psi	DAM; ISO 11403-1 -2
	@Strain 0.600 %, Temperature 23.0 °C	@Strain 0.600 %, Temperature 73.4 °F	
	36.3 MPa	5260 psi	50%RH; ISO 11403-1 -2
	@Strain 0.500 %, Temperature -40.0 °C	@Strain 0.500 %, Temperature -40.0 °F	
	42.11 MPa	6108 psi	50%RH; ISO 11403-1 -2
	@Strain 3.90 %,	@Strain 3.90 %,	

Mechanical Properties	Temperature 23.0 °C	Temperature 73.4 °F	Comments
	Metric	English	
	56.33 MPa	8170 psi	
	@Strain 0.900 %, Temperature -40.0 °C	@Strain 0.900 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	58.6 MPa	8500 psi	
	@Strain 1.10 %, Temperature 23.0 °C	@Strain 1.10 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	61.78 MPa	8960 psi	
	@Strain 1.20 %, Temperature 0.000 °C	@Strain 1.20 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	63.9 MPa	9270 psi	
	@Strain 1.10 %, Temperature 0.000 °C	@Strain 1.10 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	64.161 MPa	9305.8 psi	
	@Strain 35.0 %, Temperature 23.0 °C	@Strain 35.0 %, Temperature 73.4 °F	50%RH; ISO 11403-1 -2
	66.1 MPa	9590 psi	
	@Strain 1.00 %, Temperature -40.0 °C	@Strain 1.00 %, Temperature -40.0 °F	50%RH; ISO 11403-1 -2
	70.7 MPa	10300 psi	
	@Strain 1.40 %, Temperature 23.0 °C	@Strain 1.40 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	76.3 MPa	11100 psi	
	@Strain 1.60 %, Temperature 0.000 °C	@Strain 1.60 %, Temperature 32.0 °F	50%RH; ISO 11403-1 -2
	78.05 MPa	11320 psi	
	@Strain 1.30 %, Temperature -40.0 °C	@Strain 1.30 %, Temperature -40.0 °F	DAM; ISO 11403-1 -2
	79.8 MPa	11600 psi	
	@Strain 1.30 %, Temperature -40.0 °C	@Strain 1.30 %, Temperature -40.0 °F	50%RH; ISO 11403-1 -2
	80.8 MPa	11700 psi	
	@Strain 1.80 %, Temperature 23.0 °C	@Strain 1.80 %, Temperature 73.4 °F	DAM; ISO 11403-1 -2
	81.1 MPa	11800 psi	
	@Strain 1.50 %, Temperature 0.000 °C	@Strain 1.50 %, Temperature 32.0 °F	DAM; ISO 11403-1 -2
	84.38 MPa	12240 psi	

Mechanical Properties	Metric	English	50%RH; ISO 11403-1 -2 Comments
	@Strain 1.90 %, Temperature 0.000 °C	@Strain 1.90 %, Temperature 32.0 °F	
	90.91 MPa	13190 psi	DAM; ISO 11403-1 -2
	@Strain 3.70 %, Temperature 23.0 °C	@Strain 3.70 %, Temperature 73.4 °F	
	93.5 MPa	13600 psi	50%RH; ISO 11403-1 -2
	@Strain 1.70 %, Temperature -40.0 °C	@Strain 1.70 %, Temperature -40.0 °F	
	93.7 MPa	13600 psi	DAM; ISO 11403-1 -2
	@Strain 1.90 %, Temperature 0.000 °C	@Strain 1.90 %, Temperature 32.0 °F	
	96.12 MPa	13940 psi	DAM; ISO 11403-1 -2
	@Strain 1.70 %, Temperature -40.0 °C	@Strain 1.70 %, Temperature -40.0 °F	
	99.88 MPa	14490 psi	50%RH; ISO 11403-1 -2
	@Strain 4.40 %, Temperature 0.000 °C	@Strain 4.40 %, Temperature 32.0 °F	
	112.7 MPa	16350 psi	DAM; ISO 11403-1 -2
	@Strain 4.30 %, Temperature 0.000 °C	@Strain 4.30 %, Temperature 32.0 °F	
	119.4 MPa	17320 psi	50%RH; ISO 11403-1 -2
	@Strain 4.90 %, Temperature -40.0 °C	@Strain 4.90 %, Temperature -40.0 °F	
	128.4 MPa	18620 psi	DAM; ISO 11403-1 -2
	@Strain 3.10 %, Temperature -40.0 °C	@Strain 3.10 %, Temperature -40.0 °F	
Elongation at Break	10 %	10 %	DAM; ISO 527-1/-2
	35 %	35 %	50%RH; ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	50%RH; ISO 527-1/-2
	5.90 GPa	856 ksi	DAM; ISO 527-1/-2
Flexural Modulus	2.00 GPa	290 ksi	50%RH; ISO 178
	5.40 GPa	783 ksi	DAM; ISO 178
Secant Modulus	0.25895 GPa	37.558 ksi	DAM; ISO 11403-1 -2
	@Strain 20.0 %, Temperature 80.0 °C	@Strain 20.0 %, Temperature 176 °F	

Mechanical Properties	0.261 GPa Metric	37.9 ksi English	Comments 50%RH; ISO 11403-1 -2
	@Strain 14.0 %, Temperature 100 °C	@Strain 14.0 %, Temperature 212 °F	
	0.331 GPa	48.0 ksi	50%RH; ISO 11403-1 -2
	@Strain 12.0 %, Temperature 80.0 °C	@Strain 12.0 %, Temperature 176 °F	
	0.3315 GPa	48.08 ksi	DAM; ISO 11403-1 -2
	@Strain 12.0 %, Temperature 100 °C	@Strain 12.0 %, Temperature 212 °F	
	0.454 GPa	65.8 ksi	50%RH; ISO 11403-1 -2
	@Strain 13.0 %, Temperature 23.0 °C	@Strain 13.0 %, Temperature 73.4 °F	
	0.510 GPa	73.9 ksi	DAM; ISO 11403-1 -2
	@Strain 6.50 %, Temperature 100 °C	@Strain 6.50 %, Temperature 212 °F	
	0.516 GPa	74.9 ksi	DAM; ISO 11403-1 -2
	@Strain 8.00 %, Temperature 80.0 °C	@Strain 8.00 %, Temperature 176 °F	
	0.533 GPa	77.3 ksi	50%RH; ISO 11403-1 -2
	@Strain 5.50 %, Temperature 100 °C	@Strain 5.50 %, Temperature 212 °F	
	0.548 GPa	79.5 ksi	50%RH; ISO 11403-1 -2
	@Strain 6.00 %, Temperature 80.0 °C	@Strain 6.00 %, Temperature 176 °F	
	0.601 GPa	87.1 ksi	DAM; ISO 11403-1 -2
	@Strain 4.60 %, Temperature 100 °C	@Strain 4.60 %, Temperature 212 °F	
	0.707 GPa	103 ksi	50%RH; ISO 11403-1 -2
	@Strain 3.10 %, Temperature 100 °C	@Strain 3.10 %, Temperature 212 °F	
	0.758 GPa	110 ksi	50%RH; ISO 11403-1 -2
	@Strain 3.30 %, Temperature 80.0 °C	@Strain 3.30 %, Temperature 176 °F	
	0.792 GPa	115 ksi	DAM; ISO 11403-1 -2
	@Strain 3.70 %, Temperature 80.0 °C	@Strain 3.70 %, Temperature 176 °F	
	0.800 GPa	116 ksi	DAM; ISO 11403-1 -2
	@Strain 2.20 %,	@Strain 2.20 %,	

Mechanical Properties	Temperature 100 °C Metric	Temperature 212 °F English	Comments
-----------------------	------------------------------	-------------------------------	----------

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