

DuPont Performance Polymers Minlon® 11C140 BK086 Nylon 66 (Unverified Data**)

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

Material Notes:

Minlon® 11C140 BK086 is a 40% mineral reinforced, heat stabilized, black polyamide 66 resin 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-11C140-BK086-Nylon-66-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in³	DAM; ISO 1183
Filler Content	40 %	40 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	87.0 MPa	12600 psi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	8.0 %	8.0 %	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20 %	20 %	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	2.50 GPa	363 ksi	50%RH; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.80 GPa	841 ksi	DAM; ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	5.00 kJ/m²	2.38 ft-lb/in²	DAM; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.00 kJ/m²	3.81 ft-lb/in²	50%RH; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	11.5 J/cm²	54.7 ft-lb/in²	DAM; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	50%RH; ISO 179/1eU Comments
Charpy Impact, Notched	0.550 J/cm²	2.62 ft-lb/in²	DAM; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.800 J/cm²	3.81 ft-lb/in²	50%RH; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	10°C/min; DAM; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	DAM; ISO 75-1/-2
UL RTI, Electrical	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
	65.0 °C	149 °F	DAM; UL 746B
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Flammability, UL94	HB	HB	DAM; IEC 60695-11-10
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	HB	HB	DAM; IEC 60695-11-10

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	HB	HB	DAM; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; UL94
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	HB	HB	DAM; UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	DAM; UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	295 °C	563 °F	DAM; Optimum
	285 - 305 °C	545 - 581 °F	DAM
Mold Temperature	70.0 - 120 °C	158 - 248 °F	DAM
	100 °C	212 °F	DAM; optimum
Drying Temperature	80.0 °C	176 °F	DAM
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	DAM
Moisture Content	<= 0.20 %	<= 0.20 %	DAM

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Drying Recommended	Yes, if moisture content of resin exceeds recommended level	DAM
Filler	Mineral filler	DAM
Forms	Pellets	DAM
Generic	Nylon 66	DAM
Material Status	Current	DAM
Part Marking Code	>PA66-IMD40<	ISO 11469; DAM
Polymer Family	Polyamide	DAM
Polymer Type	PA66	DAM
Processing Method	Injection Molding	DAM

Product Category	Low Warp Resins	DAM
Descriptive Properties	Value	Comments
	Mineral Reinforced Resins	DAM
Resin Identification	PA66-IMD40	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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