

DuPont™ Nomex® Type 993, 160 mil Nominal Thickness Medium-Density Aromatic Nylon Pressboard

Category : Polymer , Thermoplastic , Nylon , Nylon, Aromatic

Material Notes:

Type 993 is a medium-density pressboard which offers a balance of rigidity and conformability along with outstanding saturability and excellent properties in air and oil. Typical applications include 3-dimensional parts such as V-rings, angle rings and spools, as well as barrier, gap spacers and core tubes. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nomex-Type-993-160-mil-Nominal-Thickness-Medium-Density-Aromatic-Nylon-Pressboard.php

Physical Properties	Metric	English	Comments
Density	0.820 g/cc	0.0296 lb/in ³	Calculated number using basis weight and thickness
Thickness	4150 microns	163 mil	ASTM D374, method D, using 17 N/cm ²
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D3392
	@Temperature 105 °C	@Temperature 221 °F	
	0.012 cm/cm	0.012 in/in	ASTM D3392
	@Temperature 240 °C	@Temperature 464 °F	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D3392
	@Temperature 105 °C	@Temperature 221 °F	
	0.015 cm/cm	0.015 in/in	ASTM D3392
	@Temperature 240 °C	@Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	49.1 MPa	7120 psi	ASTM D828
Film Tensile Strength at Yield, TD	45.3 MPa	6570 psi	ASTM D828
Film Elongation at Yield, MD	14.7 %	14.7 %	ASTM D828
Film Elongation at Yield, TD	15.3 %	15.3 %	ASTM D828

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0950 W/m-K	0.659 BTU-in/hr-ft ² -°F	ASTM D1674
	@Temperature 125 °C	@Temperature 257 °F	
	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	ASTM D1674 Comments
	0.1025 W/m-K @Temperature 175 °C	0.7114 BTU-in/hr-ft ² -°F @Temperature 347 °F	ASTM D1674
	@Temperature 220 °C	@Temperature 428 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm @Temperature 130 °C	1.00e+17 ohm-cm @Temperature 266 °F	in oil; ASTM D257
	1.00e+18 ohm-cm @Temperature 90.0 °C	1.00e+18 ohm-cm @Temperature 194 °F	in oil; ASTM D257
Dielectric Constant	3.6 @Frequency 60.0 Hz, Temperature 25.0 °C	3.6 @Frequency 60.0 Hz, Temperature 77.0 °F	in oil; ASTM D150
	3.7 @Frequency 60.0 Hz, Temperature 90.0 °C	3.7 @Frequency 60.0 Hz, Temperature 194 °F	in oil; ASTM D150
	3.8 @Frequency 60.0 Hz, Temperature 130 °C	3.8 @Frequency 60.0 Hz, Temperature 266 °F	in oil; ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	AC rapid rise in air; ASTM D149
	27.0 kV/mm	686 kV/in	AC rapid rise in oil; ASTM D149
	60.0 kV/mm	1520 kV/in	Full wave impulse in oil; ASTM D3426
Dissipation Factor	0.0050 @Frequency 60.0 Hz, Temperature 90.0 °C	0.0050 @Frequency 60.0 Hz, Temperature 194 °F	in oil; ASTM D150
	0.0060 @Frequency 60.0 Hz, Temperature 130 °C	0.0060 @Frequency 60.0 Hz, Temperature 266 °F	in oil; ASTM D150
	0.0070 @Frequency 60.0 Hz, Temperature 25.0 °C	0.0070 @Frequency 60.0 Hz, Temperature 77.0 °F	in oil; ASTM D150

Descriptive Properties	Value	Comments
Basis Weight (g/m ²)	ASTM D3394	

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