

DuPont™ Nomex® Type 993, 60 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-993-60-mil-Nominal-Thickness-Medium-Density-Aromatic-Nylon-Pressboard.php

Physical Properties	Metric	English	Comments
Density	0.730 g/cc	0.0264 lb/in ³	Calculated number using basis weight and thickness
Thickness	1500 microns	59.1 mil	ASTM D374, method D, using 17 N/cm ²
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 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	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D3392
	@Temperature 105 °C	@Temperature 221 °F	
	0.016 cm/cm	0.016 in/in	ASTM D3392
	@Temperature 240 °C	@Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	40.0 MPa	5800 psi	ASTM D828
Film Tensile Strength at Yield, TD	33.1 MPa	4800 psi	ASTM D828
Film Elongation at Yield, MD	11.2 %	11.2 %	ASTM D828
Film Elongation at Yield, TD	12.9 %	12.9 %	ASTM D828

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	in oil; ASTM D257
	@Temperature 130 °C	@Temperature 266 °F	
	1.00e+18 ohm-cm	1.00e+18 ohm-cm	

Electrical Properties	Metric @ Temperature 90.0 °C	English @ Temperature 194 °F	in oil; ASTM D257 Comments
Dielectric Constant	3.2	3.2	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
	3.2	3.2	
Dielectric Strength	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	in oil; ASTM D150
	3.3	3.3	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 130 °C	@Frequency 60.0 Hz, Temperature 266 °F	
22.0 kV/mm	559 kV/in	AC rapid rise in air; ASTM D149	
Dissipation Factor	34.0 kV/mm	864 kV/in	AC rapid rise in oil; ASTM D149
	73.0 kV/mm	1850 kV/in	Full wave impulse in oil; ASTM D3426
	0.0050	0.0050	in oil; ASTM D150
@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F		
0.0050	0.0050		
Dissipation Factor	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	in oil; ASTM D150
	0.0070	0.0070	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 130 °C	@Frequency 60.0 Hz, Temperature 266 °F	

Descriptive Properties	Value	Comments
Basis Weight (g/m ²)	ASTM D3392	

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