

DuPont™ Nomex® Type 994, 125 mil Nominal Thickness Rigid Aromatic Nylon Board

Category : Polymer , Thermoplastic , Nylon , Nylon, Aromatic

Material Notes:

Type 994 is a densified, rigid board which has a unique combination of superior resistance to compression, even at elevated temperatures, along with relatively high oil absorption characteristics. This combination results in a product which is especially useful as spacers or other structural components in liquid-filled systems. Information provided by DuPont

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Nomex-Type-994-125-mil-Nominal-Thickness-Rigid-Aromatic-Nylon-Board.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	Calculated number using basis weight and thickness
Thickness	3180 microns	125 mil	ASTM D374, method D, using 17 N/cm ²
Linear Mold Shrinkage	0.00 cm/cm @Temperature 240 °C	0.00 in/in @Temperature 464 °F	ASTM D3392
Linear Mold Shrinkage, Transverse	0.00 cm/cm @Temperature 240 °C	0.00 in/in @Temperature 464 °F	ASTM D3392

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	ASTM D2240
Film Tensile Strength at Yield, MD	107 MPa	15500 psi	ASTM D828
Film Tensile Strength at Yield, TD	93.0 MPa	13500 psi	ASTM D828
Flexural Strength	8.00 MPa	1160 psi	XD; ASTM D790
	9.00 MPa	1310 psi	MD; ASTM D790
Flexural Modulus	0.255 GPa	37.0 ksi	XD; ASTM D790
	0.360 GPa	52.2 ksi	MD; ASTM D790
Izod Impact, Unnotched	3.75 J/cm	7.03 ft-lb/in	XD; ASTM D256
	5.45 J/cm	10.2 ft-lb/in	MD; ASTM D256
Compression Set	0.30 %	0.30 %	ASTM D3392

Thermal Properties	Metric	English	Comments
	0.160 W/m-K	1.11 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric @ Temperature 50.0 °C	English @ Temperature 122 °F	ASTM D1674 Comments
	0.161 W/m-K	1.12 BTU-in/hr-ft ² -°F	ASTM D1674
	@Temperature 100 °C	@Temperature 212 °F	
	0.163 W/m-K	1.13 BTU-in/hr-ft ² -°F	ASTM D1674
	@Temperature 150 °C	@Temperature 302 °F	
	0.165 W/m-K	1.15 BTU-in/hr-ft ² -°F	ASTM D1674
	@Temperature 200 °C	@Temperature 392 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	in air; ASTM D257
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	in oil; ASTM D257
	@Temperature 125 °C	@Temperature 257 °F	
	1.00e+17 ohm-cm	1.00e+17 ohm-cm	in oil; ASTM D257
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Resistivity per Square	1.00e+17 ohm	1.00e+17 ohm	in air; ASTM D257
Dielectric Constant	3.5	3.5	in air; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	4.0	4.0	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
	4.4	4.4	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 125 °C	@Frequency 60.0 Hz, Temperature 257 °F	
Dielectric Strength	27.0 kV/mm	686 kV/in	AC rapid rise in oil; ASTM D149, 50mm electrodes
	70.0 kV/mm	1780 kV/in	Full wave impulse in oil; ASTM D3426
Dissipation Factor	0.0070	0.0070	in air; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.011	0.011	in oil; ASTM D150
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
	0.016	0.016	in oil; ASTM D150
	@Frequency 60.0 Hz,	@Frequency 60.0 Hz,	

Electrical Properties	Temperature 125 °C Metric	Temperature 257 °F English	Comments
Descriptive Properties	Value		Comments
Basis Weight (g/m ²)	ASTM D3394		
Compressibility (%)	1.1		ASTM D3392

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