

DuPont™ Nomex® Type 994, 250 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-994-250-mil-Nominal-Thickness-Rigid-Aromatic-Nylon-Board.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Calculated number using basis weight and thickness
Thickness	6340 microns	250 mil	ASTM D374, method D, using 17 N/cm ²
Linear Mold Shrinkage	0.0020 cm/cm @Temperature 240 °C	0.0020 in/in @Temperature 464 °F	ASTM D3392
Linear Mold Shrinkage, Transverse	0.0020 cm/cm @Temperature 240 °C	0.0020 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	110 MPa	16000 psi	ASTM D828
Film Tensile Strength at Yield, TD	72.0 MPa	10400 psi	ASTM D828
Flexural Strength	8.00 MPa	1160 psi	XD; ASTM D790
	9.00 MPa	1310 psi	MD; ASTM D790
Flexural Modulus	0.365 GPa	52.9 ksi	XD; ASTM D790
	0.415 GPa	60.2 ksi	MD; ASTM D790
Izod Impact, Unnotched	2.85 J/cm	5.34 ft-lb/in	XD; ASTM D256
	3.55 J/cm	6.65 ft-lb/in	MD; ASTM D256
Compression Set	0.20 %	0.20 %	ASTM D3392

Thermal Properties	Metric	English	Comments
	20.8 %	20.8 %	

Oxygen Index Thermal Properties	Metric @ Temperature 380 °C	English @ Temperature 716 °F	Flammability threshold; ASTM D2863 Comments
	29 %	29 %	ASTM D2863
	@Temperature 220 °C	@Temperature 428 °F	
	39 %	39 %	ASTM D2863
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	in air; ASTM D257
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	
Dissipation Factor	0.010	0.010	in air; ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	

Descriptive Properties	Value	Comments
Basis Weight (g/m²)	ASTM D3394	
Compressibility (%)	1.2	ASTM D3392

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