



N003 Natural film is a high performance thermoplastic Polyetherimide material. The combination of high temperature resistance, flame resistance, low moisture absorption and excellent dielectric properties makes N003 film a good candidate for a broad range of electrical and electronic applications.

N003 film products are thermo-formable and can be heat-sealed to a wide variety of materials.

Properties	Unit	N003	Test Method
Base material		Polyetherimide film	
Color		Natural amber	Visual
Thickness tolerance	%	10	
Thermal Properties			
Thermal conductivity	W/mK	0.22	ASTM C177
Thermal expansion	ppm/°C	52	IPC-TM-650
Electrical Properties			
Dielectric strength	kV	3.650	ASTM D149
Dielectric constant		3.2	IPC-TM-650
Mechanical Properties			
Tensile strength @Yield	MPa	100	ISO R527
Tensile strength @Break	%	6.0	ISO R527
Elongation	%	6.5	ISO R527
Physical Properties			
Flame rating	UL94	VTM-0	
Density	g/cm ³	1.27	ISO 1183
Standard thicknesses	mm	0.13 / 0.25	

Ordering example:

N003-025

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