



**Mykroy/  
Mycalex<sup>®</sup>**  
DATASHEET

**TYPICAL PROPERTIES OF MYKROY / MYCALEX®**

Properties	MM®400	MM®500	MM®1100
<b>PHYSICAL</b>			
Density (g/cm <sup>3</sup> )	2.5	2.7	2.8
Moisture Absorption (%)	Nil	Nil	Nil
Color	D-Gray	L-Gray	Cream
Mica Filler	Natural	Synthetic	Synthetic
Flammability	DOES NOT BURN	DOES NOT BURN	DOES NOT BURN
<b>MECHANICAL</b>			
Tensile Strength (psi)	6,000	6,000	5,000
Flexural Strength (psi)	13,000	12,500	11,000
Compressive Strength (psi)	45,000	40,000	32,000
Modules of Elasticity (psi x 10 <sup>-6</sup> )	11.0	12.0	10.6
Hardness, Rockwell (H /A)	90 / 46	90 / 46	91 / 47
IZOD Notched Impact (ft-lbs/in)	1.8	1.7	1.3
<b>THERMAL</b>			
Max continuous Use Temp (°F/°C)	750 / 400	750 / 400	1100 / 595
Thermal Conductivity (W/m.K)	0.87	1.15	1.32
Coefficient of Thermal Expansion (x 10 <sup>-6</sup> ) (/ °C @ 25 °C)	12.5	11.57	10.48
(@ 350 °C)	11.0	10.53	9.74
(@ 500 °C)	----	----	9.39
Specific Heat (cal/g/ °C)	0.12	0.12	0.11
<b>ELECTRICAL</b>			
Dielectric Strength (V/mil)	730	530	420
Arc Resistance (Seconds)	245	260	345
Dissipation Factor at 1 MHz	0.0018	0.0013	0.0017
Loss Index at 1 MHz	0.012	0.009	0.012
Surface Resistivity (ohm-sq) at 25 °C	10 <sup>-9</sup>	10 <sup>-12</sup>	10 <sup>-11</sup>
Volume Resistivity (ohm-cm) at 25 °C	10 <sup>-10</sup>	10 <sup>-14</sup>	10 <sup>-12</sup>
Dielectric Constant at 1 MHz	6.7	6.9	6.8