



# THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item: Flexible Mica P							
Description:	Flexible Mica P is a high temperature insulation material, offering superior sealing performance in extreme temperature applications. Mica P also provides good chemical resistance to solvents, acids, bases, and oils, making it the gasket material of choice for gas turbine, heat exchangers and other burner applications.						
Availability:	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">SI Units</td> <td style="text-align: center;">English Units</td> </tr> <tr> <td style="text-align: center;">Thickness: 0.013mm - 3.175 mm</td> <td style="text-align: center;">Thickness: 0.005" - 0.125"</td> </tr> <tr> <td style="text-align: center;">Sheet Size: 1,016mm x 1,219mm</td> <td style="text-align: center;">Sheet Size: 40" x 48"</td> </tr> </table>	SI Units	English Units	Thickness: 0.013mm - 3.175 mm	Thickness: 0.005" - 0.125"	Sheet Size: 1,016mm x 1,219mm	Sheet Size: 40" x 48"
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Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.						
Standards:	IEC Grade 371-3-9 & NEMA FI1 Grade 6						

Key Characteristics	Test Method	Units - SI (English )	Typical Values	
Phologopite Mica Content	IEC 371-2	%	Min. 90	
Silicone Binder Content	IEC 371-2	%	Max 10	
Density	IEC 371-2	g/cm <sup>3</sup> (lb./in. <sup>3</sup> )	1.9 (0.068)	
Weight Loss	ASTM D3850	%	<4%	
Tensile Strength	ASTM D638	MPa (psi)	74 (10,700)	
Compressibility	ASTM F-36-J	%	20	
Elastic Recovery	ASTM F-36-J	%	30-37	
Flammability	UL94	--	V-O	
Dielectric Strength, 23°C	ASTM D149	kV/mm (V/mil)	20 (508)	
Thermal Expansion at 250°C	ASTM E228	cm/cm (in./in.)	2.8 (10 <sup>-3</sup> )	
Thermal Conductivity	Perpendicular at 50°C	ASTM E1461	W/m·K	0.23
	Horizontal at 250°C			0.21
Maximum Continuous Temperature	--	°C (°F)	700 (1,300)	
Maximum Intermitent Temperature	--	°C (°F)	900 (1,650)	