

SPECIFICATIONS



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SPI Supplies
206 Garfield Avenue,
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SPI Chem Phlogopite Mica

Thickness (mm)	0.15	Modulus of Elasticity (kgf/cm ² x 10 ⁻³)	1400-2100
Colour	Ruby, Green, White, Amber, Yellow, Silver	Coefficient of expansion per °C perpendicular to cleavage plane	30 X 10 ⁻⁶ - 60 X 10 ⁻⁶
Appearance	Vitreous to pearly luster, transparent to translucent	Calcining Temperature (°C)	900-1000
Chemical formula	KMg ₃ AlSi ₃ O ₁₀ (OH) ₂	Maximum Operating Temperature (°C)	800-900
CAS #	12001-26-2	Thermal Conductivity Perpendicular to cleavage planes (Gm.cal/sec/cm ² /C/cm)	about 0.001
Crystal system	Monoclinic, 2/m	Parallel to cleavage planes (Gm.cal/sec/cm ² /C/cm)	about 0.012
Density (gm/cm³)	2.6-3.2	Water of Constitution (%)	3.0
Specific heat	0.21	Moisture Absorption	very low
Hardness	Moh Scale	2.5-3.0	Apparent Electric Strength (0.001" to 0.003" KV/mm)
	Shore Test	70-100	R.M.S. at 15°C (0.01" to 0.05" KV/mm)
Optic Axial Angle	5-25	Permittivity at 15°C	5-6
Tensile strength (Kgf/cm ²)	About 1000	Power Factor (loss tangent) at 15°C	0.001-0.005
Shear strength (Kgf/cm ²)	1000-1300	Volume Resistivity at 25°C (ohm cm)	1x10 ¹² -1x10 ¹⁴
Compression Strength (kgf/cm ²)	---	Acid Reaction	Affected by Sulphuric Acid