



ThermaFlex Series

Phlogopite Micas maintain superior delamination while providing an excellent balance of properties. Because of their high purity, these micas maintain low abrasivity with high elasticity and minimum attrition when exposed to the extreme mixing conditions of compounding and extrusion.

Phlogopite Mica is specifically designed for plastic & electrical applications, where stiffness, HDT, warpage & shrinkage are a concern. They are also useful additives in sound and vibration damping materials, fiber cement composites, & various industrial coatings.

(S) Denotes a chemical treatment has been applied

	Product Description	HR90	HR20(S)	HR10(S)	HR4(S)	HR2(S)	HRX(S)
Median Particle Size (d50)	Microns	700	85	50	35	15	3
% Passing	-20 Mesh	76.2	99.9	100	100	100	100
	-35 Mesh	23.2	99	99.9	100	100	100
	- 70 Mesh	5.5	91	99	99.9	99.9	100
	- 170 Mesh	2.2	70	93	99	99.8	100
	- 325 Mesh	1.1	43	73	93	99.7	99.99
Bulk Density	(lbs./ft ³)	35.60	16.50	15.10	14.55	13.10	13.00
	(g/cc)	0.57	0.26	0.24	0.23	0.21	.21
Aspect Ratio		80	40-50	45-55	40-50	30-40	15-20

Typical Chemical Analysis (WT.) %		
Silicon Dioxide	SiO ₂	42
Magnesium Oxide	MgO	24
Aluminum Oxide	Al ₂ O ₃	10
Iron Oxide	Fe ₂ O ₃	9
Potassium Oxide	K ₂ O	10

Typical Properties	
True Density	2.90 g/cc
Melting Point	1,400°C
Moisture % (@100°C)	<0.4
pH	8.75
LOI @ 1,000 °C	<3.0
Mohs Hardness	2.5-3.0

Chemical Abstract Registry (CAS) No.: 12001-26-2

FDA: Arctic Minerals Mica products meet the FDA requirements of Title 21 CFR 175.105.5 Adhesive; 175.300 Resinous and Polymeric Coatings; 177.2600 Rubber articles intended for repeated use; 178.3297 Colorants for Polymers.

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