Arctic Minerals, LLC

BriteFlex® MR Series Muscovite Micas

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Muscovite Micas maintain a high aspect ratio of potassium aluminum silicate which exhibits superior brightness and purity.

Muscovite Micas industrial applications include:
Plastics – These micas are excellent additives for plastics to improve flexural modulus, tensile strength, and dimensional stability and as an excellent extender for glass fiber. Coatings – When used in coatings, mica platy structure imparts a barrier in the film to improve moisture resistance, chemical resistance, brush ability and promotes film adhesion.

(S) Denotes products an be supplied with a chemical coating to ensure good compatibility with polymer systems.

	Product Description	MR20 (S)	MR10 (S)	MR4 (S)	MR2 (S)	MRX (S)
Median Particle Size (d50)	Microns	80	50	30	13	3
% Passing	- 325 Mesh	45	70	88	95	99.9
	- 170 Mesh	70	90	96	97	100
	- 70 Mesh	87	96	99	99	100
	-35 Mesh	97	99	100	100	100
	-20 Mesh	100	100	100	100	100
Bulk Density	(lbs./ft^3)	16.00	15.50	15.00	13.50	12.8
	(g/cc)	0.26	0.25	0.24	0.22	0.21
Aspect Ratio		40-45	25-30	20-25	20-25	15-20

Typical Chemical Analysis (WT.) %		
Silicon Dioxide	Sio_2	46
Magnesium Oxide	Mg0	0.9
Aluminum Oxide	$A1_2O_3$	31.6
Iron Oxide	Fe_2O_3	4.9
Potassium Oxide	K_20	10.5

Typical Properties	
True Density	2.85 g/cc
Melting Point	1,200˚C
Moisture % (@100˚c)	<0.4
pH	9.0
LOI @ 1,000 ˚C	<4.4
Mohs Hardness	2.5

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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