

Hymod[®] M9400 SG

Aluminum Hydroxide (ATH)

DESCRIPTION

Huber Engineered Materials' Hymod[®] M9400 SG is a precipitated, surface treated ATH product that provides flame retardancy and smoke suppression in a variety of applications, such as acrylic, EPDM, EVA, SBR, polyester and polyolefin compounds. The surface modification enables this product to have low moisture and to be easily and uniformly dispersed into polymers at high loading levels. Hymod[®] M9400 SG can be used in such applications as foamed insulation, wire and cable insulation and jacketing, injection molded and extruded polyolefins and solvent borne coatings. This product provides excellent processing characteristics as well as superior electrical and mechanical properties.

General Chemical and Physical Property Data		
Constant Physical Properties		
Parameter	Method	Value
pH	ASTM D-1208	9
Hardness, Mohs	Handbook of Chem. & Physics	2.5 - 3.5
Specific Gravity	Handbook of Fillers & Reinforcement for Plastics	2.42
Refractive Index	Handbook of Fillers & Reinforcement for Plastics	1.57
Loss on ignition (1000°C)	Calculated	34.60%

Typical Physical Properties		
325 Mesh Residue, %	PLA 67	0.005
Median Particle Size μ m	PLA 38-73	1.1
Dry Brightness (MgO = 100)	ASTM C-110	98
BET Surface Area, m ² /g	BET	5
Moisture, %	ASTM D-280	0.25

Typical Chemical Analysis	
Parameter	Hymod [®] M9400 SG
Al(OH) ₃ , %	99.6
SiO ₂ , %	0.005
Fe ₂ O ₃ , %	0.006
Na ₂ O, % soluble	0.025