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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, μm | 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 |

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