

Trelleborg Fillite® 160 Alumino-silicate Cenospheres

Category : Ceramic , Glass , Oxide , Silicon Oxide , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Fillite is a glass hard, inert, hollow silicate sphere. Fillite is primarily used to reduce the weight of plastics, rubbers, resins, cement, etc., but also imparts further benefits in many situations. Many of the advantages from the use of Fillite, including increased filler loading and improved rheology, are directly attributed to the spherical nature of the material. Typical Applications Refractories, PVC flooring, oilwell cements, brake linings, Phenolics, Epoxies, Cast Polyesters, synthetic marbles, syntactic foams, BMC, SMC and FRP. Low density cements, shotcrete and gypsum board joint compounds. Automotive sound-dampening sheets. Advantages Reduced weight, increased filler loadings, better flow characteristics, less shrinkage and warping. Improved physical properties in moldings, castings, and laminates, reduced water absorption, improved flame retardance, improved chemical resistance. All information provided by Fillite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-Fillite-160-Alumino-silicate-Cenospheres.php

Physical Properties	Metric	English	Comments
Bulk Density	0.350 - 0.450 g/cc	0.0126 - 0.0163 lb/in ³	
Pellet Density	0.600 - 0.850 g/cc	0.0217 - 0.0307 lb/in ³	
Loss On Ignition	<= 2.0 %	<= 2.0 %	
Particle Size	5.0 - 180 µm	5.0 - 180 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.0	5.0	
Compressive Strength	10.3 - 20.7 MPa	1500 - 3000 psi	Crush Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.110 W/m-K	0.763 BTU-in/hr-ft ² -°F	
Melting Point	1200 - 1350 °C	2190 - 2460 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	<= 33 %	<= 33 %	
CO2	70 %	70 %	
Fe2O3	<= 6.0 %	<= 6.0 %	
Nitrogen, N	30 %	30 %	
SiO2	55 - 65 %	55 - 65 %	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.30 %	<= 0.30 %	Surface

Descriptive Properties	Value	Comments
Average Wall Thickness (% Sphere Diameter)	5-10	
Color	Grey	
Packing Factor (%)	60-65	
Particle Size Distribution (%)	100	% Passing 500 microns
	100	% Passing 300 microns
	10-20	% Passing 50 microns
	40-80	% Passing 100 microns
	99.5-100	% Passing 180 microns

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