

Potters Industries Spherglass® 2429 Solid Glass Spheres

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

Material Notes:

Description: Spherglass® fine solid glass spheres are used as an additive for thermoplastic and thermosetting resin systems. Glass spheres give products many benefits such as: Low Uniform Shrinkage, Low Warpage, High Flexural Modulus, High Abrasion Resistance, High Compressive Strength, Increased Surface Hardness, Better Stress Distribution. These and other characteristics enable the spheres to be used in a wide range of applications in the automotive, chemical, electronic, industrial, engineering, and photographic industries. Information provided by Potters Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Potters-Industries-Spherglass-2429-Solid-Glass-Spheres.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.50 g/cc	2.50 g/cc	
Bulk Density	1.46 g/cc	0.0527 lb/in ³	Untapped; ASTM D 3101-78
	1.57 g/cc	0.0567 lb/in ³	Tapped; ASTM D 3101-78
Oil Absorption	18 %	18 %	ASTM D1483
Particle Size	53 - 106 µm	53 - 106 µm	Range
	70 - 100 µm	70 - 100 µm	Mean
Particle Mesh Size	140 - 270 Mesh	140 - 270 Mesh	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	6.0	6.0	
Modulus of Elasticity	68.9 GPa	10000 ksi	
Poissons Ratio	0.16	0.16	Calculated
Shear Modulus	29.6 GPa	4300 ksi	
Coefficient of Friction	0.90 - 1.0	0.90 - 1.0	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C	5.00 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.51 W/m-K	10.4 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	

Softening Point Thermal Properties	704 °C Metric	1300 °F English	Comments
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Component Elements Properties	Metric	English	Comments
Al2O3	0.40 %	0.40 %	
CaO	9.8 %	9.8 %	
Fe2O3	0.20 %	0.20 %	
Free Iron	<= 0.10 %	<= 0.10 %	
K2O	0.10 %	0.10 %	
MgO	3.3 %	3.3 %	
Na2O	13.7 %	13.7 %	
SiO2	72.5 %	72.5 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.50e+12 ohm-cm	6.50e+12 ohm-cm	
Dielectric Constant	6.9	6.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0085	0.0085	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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