

Trelleborg AEM Eccospheres® IGD-101 Sodium Borosilicate Glass Microspheres

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

Material Notes:

Eccospheres® glass microspheres are hollow thin-walled glass microspheres composed of sodium borosilicate glass. To the naked eye they resemble a fine, white, free-flowing powder. However, magnification reveals them to be near perfect spheres. Properties: High temperature resistance, Good density/strength ratios, Clean surface chemistry, Narrow particle size distribution, Low thermal conductivity, Low dielectric constant, Low dissipation factor. Specifically developed for industrial applications the IG series of Eccospheres® glass microspheres are manufactured to the same high standards as other series. This range does not undergo final washing or floating processes. All information provided by Trelleborg Emerson & Cuming

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-AEM-Eccospheres-IGD-101-Sodium-Borosilicate-Glass-Microspheres.php

Physical Properties	Metric	English	Comments
Pellet Density	0.280 - 0.320 g/cc	0.0101 - 0.0116 lb/in³	ASTM D2840
Particle Size	55 µm	55 µm	TEC QSD
pH	6.5 - 9.0	6.5 - 9.0	ASTM D4876

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	62.0 GPa	8990 ksi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	62.0 GPa	8990 ksi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0730 - 0.125 W/m-K	0.507 - 0.868 BTU-in/hr-ft²-°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.448	1.448	
	@Wavelength 1500 nm	@Wavelength 1500 nm	
	1.458	1.458	
	@Wavelength 589.3 nm	@Wavelength 589.3 nm	

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{1.36 - 1.63} Metric	^{1.36 - 1.63} English	Comments
	@Frequency 1e+8 Hz	@Frequency 1e+8 Hz	
Dissipation Factor	0.00050 @Frequency 1.00e+6 - 8.60e+9 Hz	0.00050 @Frequency 1.00e+6 - 8.60e+9 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Moisture Content	<= 1.0 %	<= 1.0 %	TED QSD

Descriptive Properties	Value	Comments
Floatation (% bulk volume)	97	TEC QSD
Isostatic Collapse Pressure, Min. 80% Survival (psi)	2300	ASTM D3102
Packing Factor (min)	62	

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