

SPHERE ONE EXTENDOSPHERES[®] FM-1 Hollow Spheres

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

Material Notes:

EXTENDOSPHERES[®] FM-1 ceramic hollow spheres are a low-density functional additive for disc brake pads, truck and train blocks, clutch facings and other friction materials. They are compatible with the non-asbestos organic (NAO) and semimetallic products used in phenolic and epoxy-based applications. Information provided by Sphere One Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SPHERE-ONE-EXTENDOSPHERES-FM-1-Hollow-Spheres.php

Physical Properties	Metric	English	Comments
Bulk Density	0.400 g/cc	0.0145 lb/in ³	
Density	0.700 - 0.800 g/cc	0.0253 - 0.0289 lb/in ³	
Particle Size	105 Åµm	105 Åµm	Average Mean
	10 - 210 Åµm	10 - 210 Åµm	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	5.0	5.0	
Compressive Strength	20.7 MPa	3000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1300 Å°C	2370 Å°F	Deformation temp

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	28 - 33 %	28 - 33 %	
Fe ₂ O ₃	<= 4.0 %	<= 4.0 %	
SiO ₂	58 - 65 %	58 - 65 %	

Descriptive Properties	Value	Comments
Color	gray	
Physical Form	Free-Flowing Powder	
Shell Thickness	Approx. 10% of diameter	

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