

## 3M Scotchlite™ S60/10000 Glass Bubbles

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

**Material Notes:**

High-strength polymer additives made from a water-resistant and chemically-stable soda-lime-borosilicate glass. These hollow glass microspheres can be used as a low density filler material ideal for plastic and rubber parts created from injection molding, extrusion processes and/or other vigorous processing equipment (Banbury mixers, etc.). Scotchlite glass bubbles help to reduce weight; reduce thermal expansion; and contribute to cost savings. They are used as additive materials in the automotive, truck, rail and aerospace industries. Information supplied by 3M Specialty Materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotchlite-S6010000-Glass-Bubbles.php](http://www.lookpolymers.com/polymer_3M-Scotchlite-S6010000-Glass-Bubbles.php)

Physical Properties	Metric	English	Comments
Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	True Density
Bulk Factor	0.63	0.63	Packing factor (bulk density to true particle density)
Oil Absorption	33.5 %	33.5 %	g oil/100 cc of polymer additive
Loss On Ignition	<= 0.50 %	<= 0.50 %	Volatile content (by weight)
Particle Size	30 µm	30 µm	Average diameter
pH	9.5	9.5	at 5% loading in water

Mechanical Properties	Metric	English	Comments
Compressive Strength	68.9 MPa	10000 psi	Isostatic crush strength

Thermal Properties	Metric	English	Comments
Softening Point	600 °C	1110 °F	

Descriptive Properties	Value	Comments
Alkalinity	0.5 milliequivalents/gram max.	
Color, Unaided Eye	White, powdery	
Composition	Soda-lime-borosilicate glass	
Flotation (density)	92% (in volume)	
Shape	Hollow glass spheres with thin walls	

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