

## 3M S42XHS Glass Bubbles

Category : Ceramic , Glass

**Material Notes:**

3M™ Glass Bubbles S42XHS are high-strength additives for polymers made from a water-resistant and chemically stable sodalime-borosilicate glass. These hollow glass microspheres can be compounded with a variety of polymers to reduce the overall thermal conductivity of the composite. These composites can be coated or incorporated into deep sea oil pipelines to improve the flow assurance properties of the system. The high strength of S42XHS glass bubbles can withstand both the high processing pressure of polymer extrusion and the pressure of seawater in many applications. The S42XHS glass bubbles have isostatic crush strengths of 8000 psi with a minimum of 90% survival. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-S42XHS-Glass-Bubbles.php](http://www.lookpolymers.com/polymer_3M-S42XHS-Glass-Bubbles.php)

Physical Properties	Metric	English	Comments
Density	0.420 g/cc	0.0152 lb/in <sup>3</sup>	
Volatiles	0.40 %	0.40 %	
Particle Size	25 µm	25 µm	diameter
pH	9.5	9.5	5% loading in water

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.140 W/m-K @Temperature 50.0 °C	0.972 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 122 °F	
Softening Point	600 °C	1110 °F	

Descriptive Properties	Value	Comments
Alkalinity	0.5 milliequivalents/gram	
Appearance	White, powdery	unaided eye
Shape	Hollow spheres with thin walls	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China

