

## 3M XLD3000 Glass Bubbles

Category : Ceramic , Glass

**Material Notes:**

3M™ Glass Bubbles XLD3000 are high-strength additives for polymers made from a water-resistant and chemically stable soda-lime-borosilicate glass. These hollow glass bubbles 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 XLD3000 glass bubbles can withstand both the high processing pressure of polymer extrusion and the pressure of seawater in many applications. The XLD3000 glass bubbles have isostatic crush strengths of 3,000 psi with a minimum of 90% survival. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-XLD3000-Glass-Bubbles.php](http://www.lookpolymers.com/polymer_3M-XLD3000-Glass-Bubbles.php)

Physical Properties	Metric	English	Comments
Density	0.230 g/cc	0.00831 lb/in <sup>3</sup>	
Volatiles	0.40 %	0.40 %	
Particle Size	30 µm	30 µm	diameter
pH	9.5	9.5	5% loading in water

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.780 W/m-K @Temperature 50.0 °C	5.41 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 122 °F	
Softening Point	600 °C	1110 °F	

Descriptive Properties	Value	Comments
Alkalinity	0.4 milliequivalents/gram	
Appearance	White, powdery	unaided eye
Shape	Hollow spheres with thin walls	

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