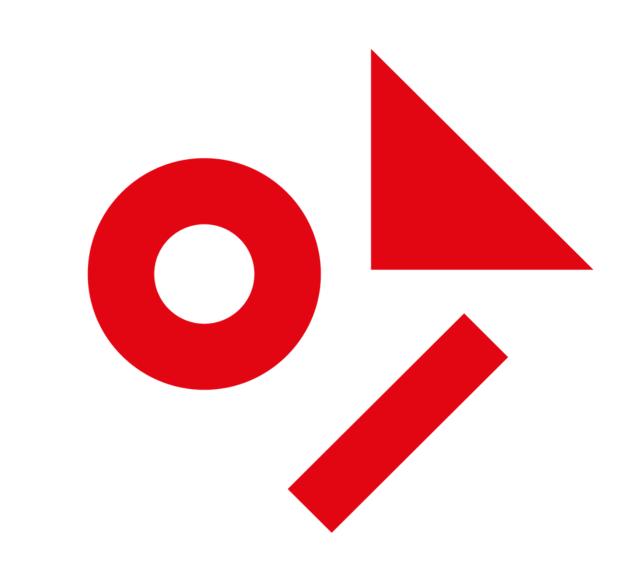
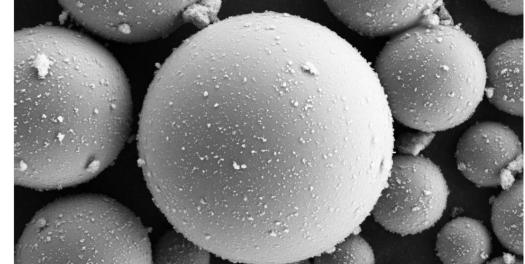
GLOXIL iM16k A Functionalized hollow glass spheres The easy way towards future



Base material

3M [™] Glass Bubbles iM16k				
Shape		Hollow, thin-walled, single-cellular spheres		
Composition		Borosilicate glass, chemical and water resistant		
Color		white		
Hardness	Mohs Scale	5		
Softening temperature	[°C]	600		
Density	[g/cm³]	0.46		
Average particle diameter	[µm]	20		
Isostatic collapse strength	[MPa] [psi]	110 16000		
© data and pictures by 3M Advanced M	laterials Division			

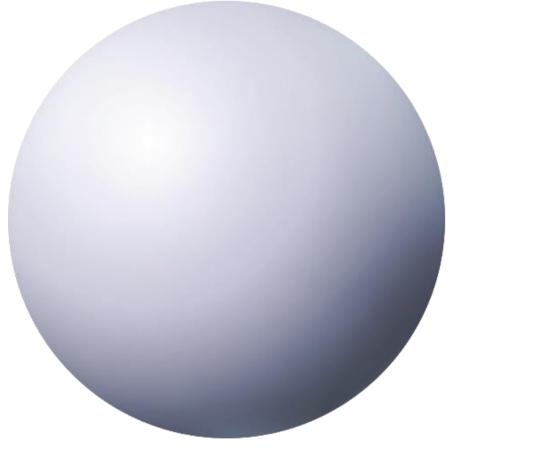


Functionalization

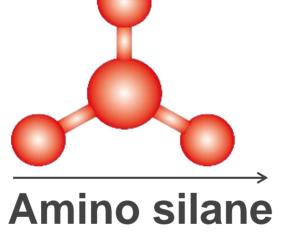
Characteristics	

A special process creates the **Gloxil iM16k A**

	Color L* (CIELAB)		98
	Density	[g/cm ³]	0.46
	Bulk density	g/cm³	0.19
	Particle size D ₅₀	[µm]	22
	Particle size D ₉₇	[µm]	45
	Specific surface area BET	[m²/g]	2
	Air jet screening >125 µm	[%]	0.2
	Volatile matter at 105 °C	%	0.3
	Flotation rate	[%]	96
	pH		10
	Functionalization		Amino



3M[™] Glass Bubbles iM16k



GLOXIL iM16k A

Typical properties, no specification

Objective

Positive effects with the surface functionalized Gloxil iM16k A on the mechanical property profile of Polyamide and Polypropylene.

0/04.2022. (TB - Gloxil iM16k A)

