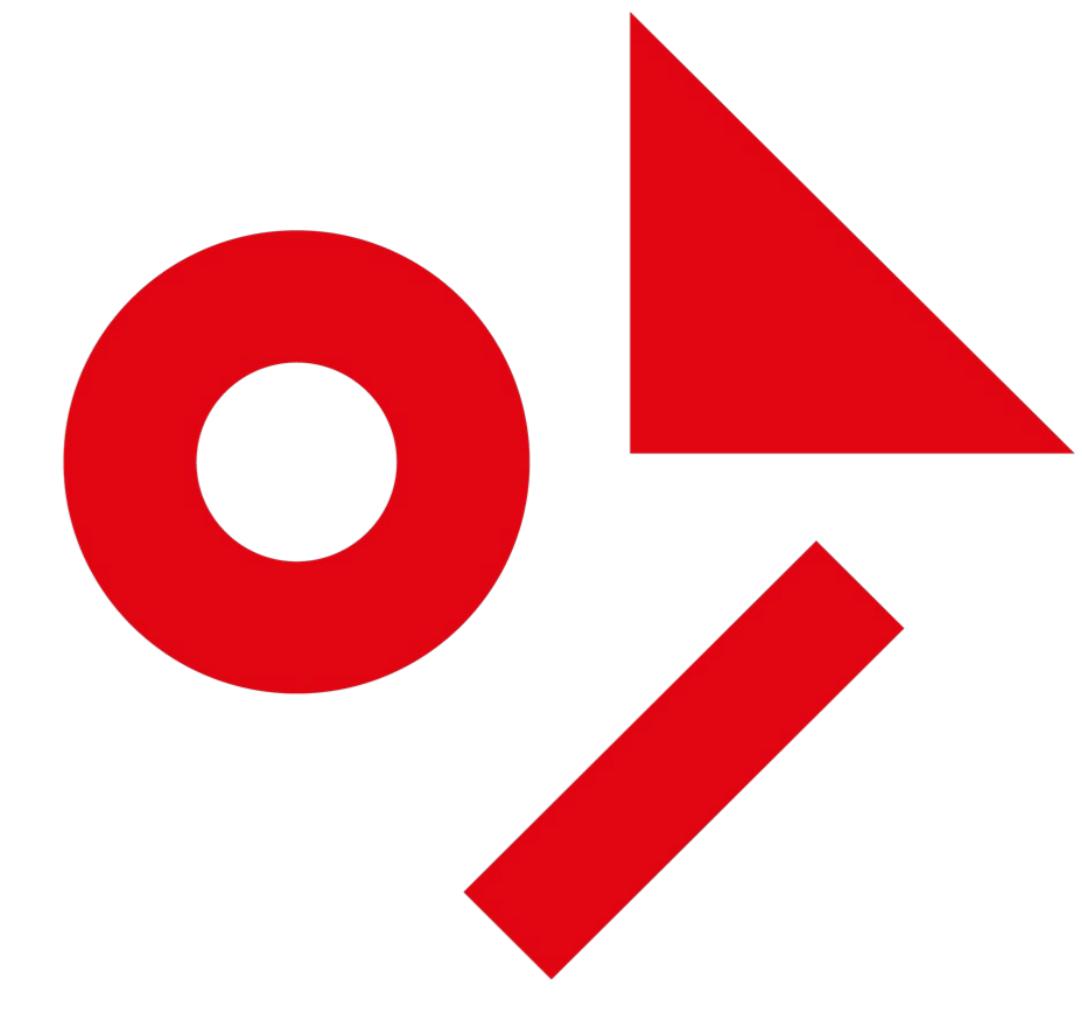


GLOXIL light iM16k A

Functionalized hollow glass spheres

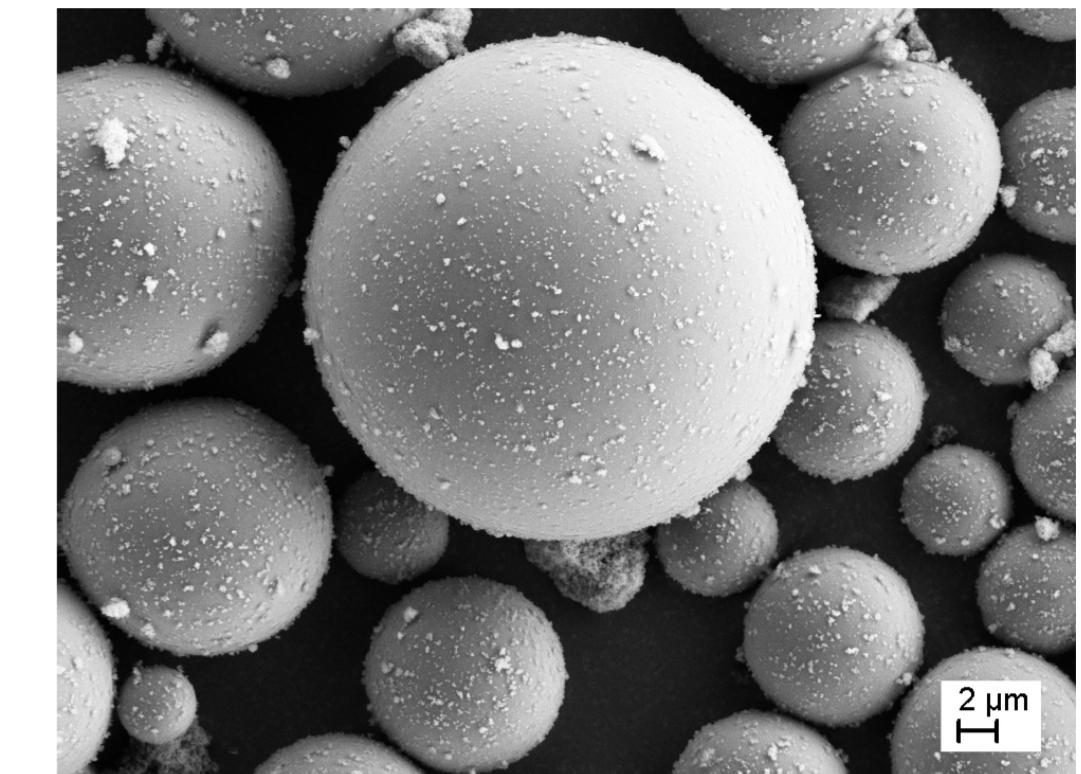
The easy way towards future



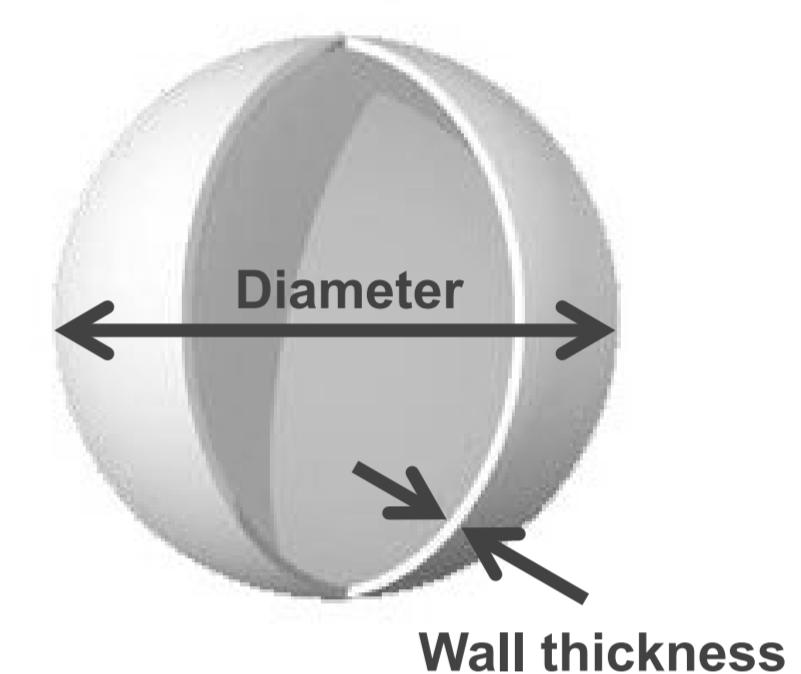
Base material

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/cm ³]	0.46	
Average particle diameter	[µm]	20	
Isostatic collapse strength	[MPa] [psi]	110 16000	



Glass Bubble as manufactured



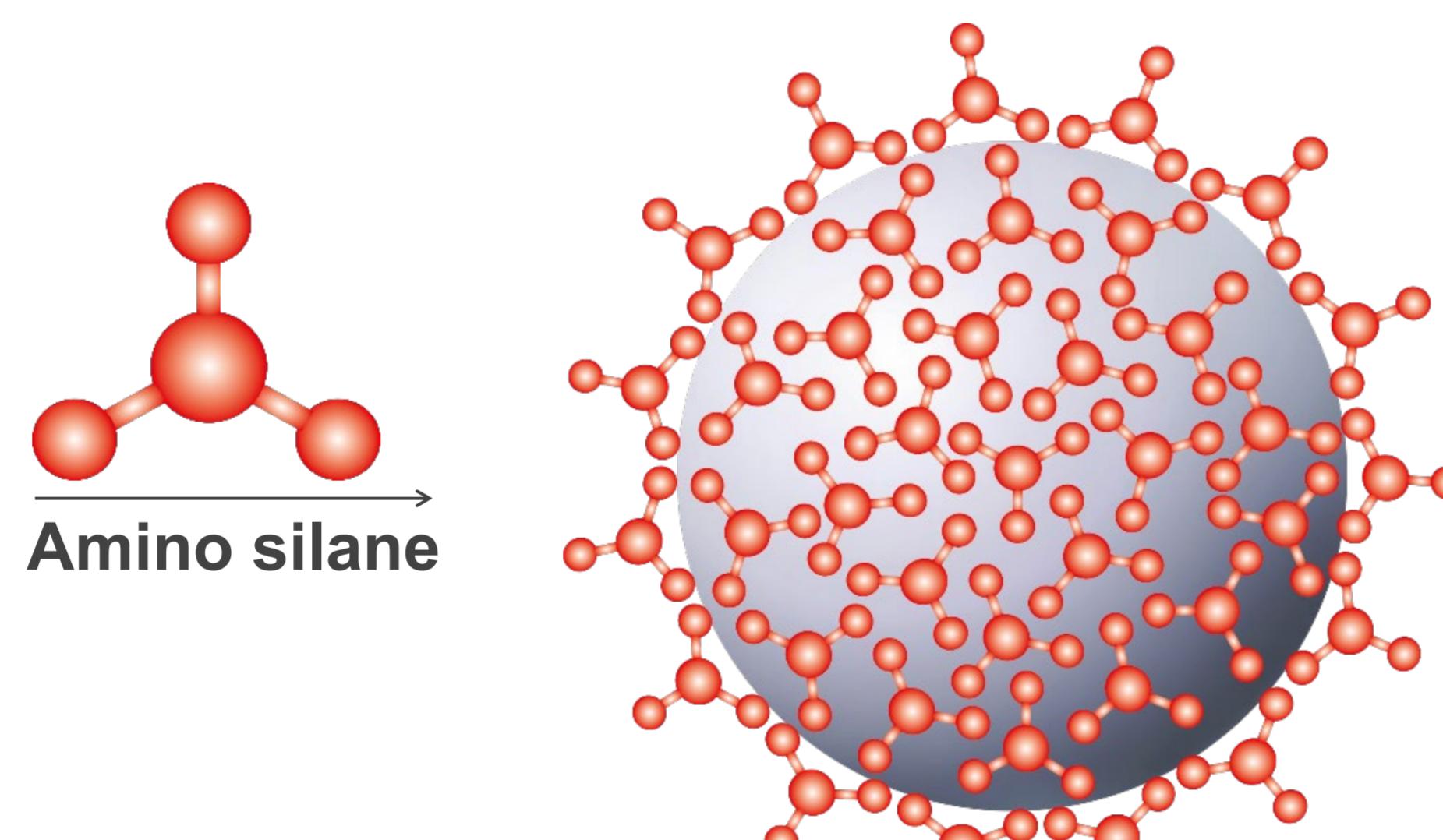
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Functionalization

A special process creates the
Gloxil light iM16k A



3M™ Glass Bubbles
iM16k



GLOXIL light iM16k A

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

Typical properties, no specification

Objective

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