

Omyasphere 900 series

For polyurethane, silyl modified polymers,
and silicone adhesives & sealants



Improve lightweighting properties with Omyasphere 900 series – hollow glass microspheres

Omyasphere 900 series are lightweight fillers based on hollow glass microspheres. They are spherical and hermetic microspheres with low density, high compressive strength and high brightness that provide functional properties to your adhesive and sealant formulations.

Application

When compared to a formulation without lightweight filler, the introduction of Omyasphere 900 reduces density, increases yield, and improves rheology while maintaining acceptable mechanical properties. Additionally, the low density of Omyasphere 900 leads to safer handling and easier application of the final product as well as tangible savings in the transportation phase, reducing the carbon footprint of the final product.



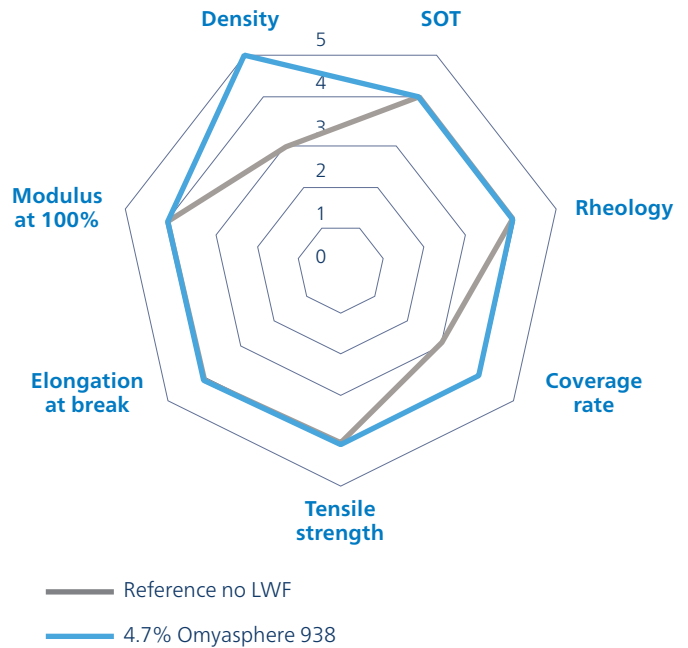
Benefits

- ✓ Density reduction
- ✓ Reduced weight
- ✓ Enhanced rheology
- ✓ Higher coverage
- ✓ Application easiness
- ✓ Reduced transport emissions

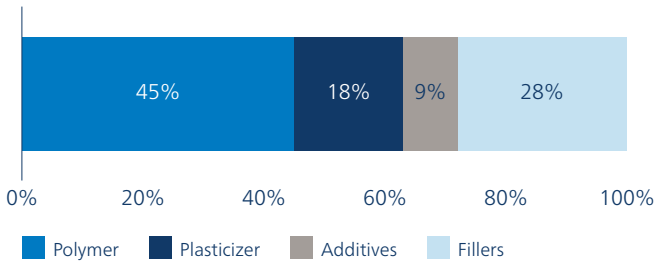
Case Study

Introducing 4.7% Omyasphere 938 into an oxime silicone sealant significantly reduces the density by 21% while maintaining similar rheological performance, skin-over-time, and mechanical properties compared to a reference sealant without lightweight filler.

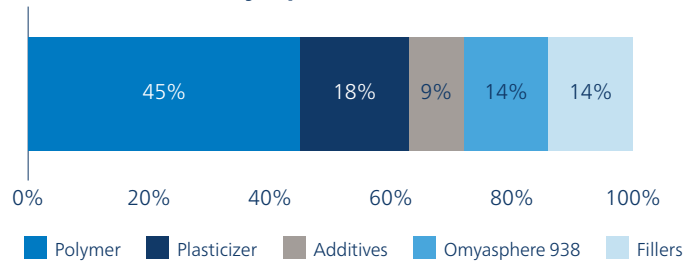
Oxime Silicone Sealant	% by weight	% by weight
Polymer	30.0	38.6
Plasticizer	12.0	15.4
Crosslinker	4.0	5.1
Adhesion promoter	2.0	2.6
Catalyst	0.02	0.03
UFPC	26.0	33.5
GCC	26.0	-
Omyasphere 938	-	4.7
Total	100	100
Density	1.4	1.1



Volume (%) - Reference



Volume (%) - Omyasphere 938



Omyasphere is a registered trademark of Omya AG in multiple countries.

Omya International AG, Baslerstrasse 42, CH-4665 Oftringen, email: lightweightfillers@omya.com
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