

Omyasphere® 900 series

For comfort paints

Improve Insulating Properties with Omyasphere 900 Series – Hollow Glass Microspheres

Omyasphere 900 series are lightweight fillers engineered for the construction industry derived from soda lime borosilicate glass. They are spherical and hermetic microspheres with low density, high compressive strength and high brightness that provide functional properties to your paint formulation.

Application

When compared to a formulation without lightweight filler, the introduction of hollow glass microspheres can increase yield and improve 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.



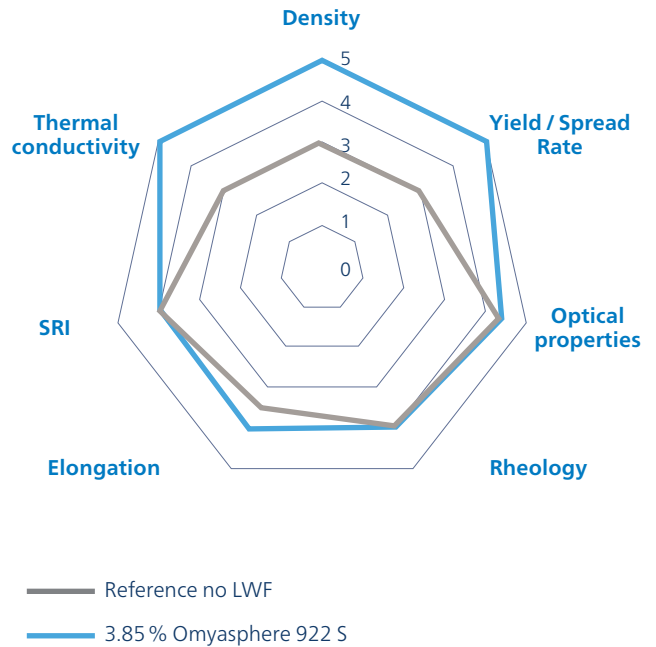
Benefits

- ✓ Density reduction
- ✓ Higher yield
- ✓ Reduced thermal conductivity
- ✓ Improved comfort properties
- ✓ Higher solids by volume
- ✓ Increased elongation

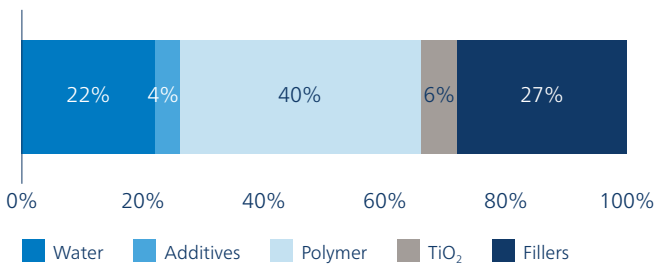
Case Study

Introducing 3.85% Omyasphere 922 S into comfort paints leads to significantly lower thermal conductivity and improved mechanical properties, compared to a reference paint without LWF, enhancing comfort properties.

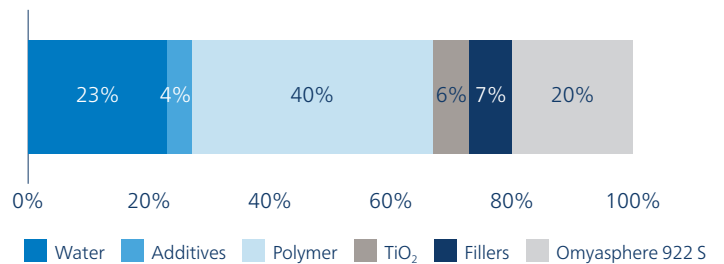
PVC~62%	% by weight	% by weight
Water	9.42	15.45
Dispersing agent	0.34	0.45
pH regulator (10%)	0.07	0.10
Rheological additive	0.29	0.54
Dispersing agent	0.15	0.20
Defoamer	0.12	0.16
Coalescent	1.10	1.48
TiO ₂	15.83	21.31
Omyacarb 10 - GU	41.91	15.37
Polymer emulsion	25.65	36.10
Preservative	0.15	0.20
Omyasphere 922 S	-	3.85
Defoamer	0.42	0.56
Water	4.55	4.23
Total	100	100
Density [g/cm³]	1.63	1.14



Volume (%) - Reference



Volume (%) - Omyasphere 922 S



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