



Silfluo LR-240/241/242

Solid Silicone Resin

Description

Silfluo LR-240/241/242 is a series of solid silicone resins at ambient temperature, supplied as colorless to light yellow transparent solids with softening points of 60 – 100 ° C. The resins provide heat resistance, weatherability, color retention, gloss retention, and chemical reactivity, with high hardness and compatibility with organic resin matrices.

The series is incorporated into organic coating systems — acrylic, polyester, epoxy, and others — by physical blending or graft copolymerization to improve heat resistance, weather resistance, and resistance to chalking and cracking. For powder coating applications, the resins are added by direct physical compounding into the powder coating formulation.

Typical Technical Properties:

Silfluo Code:	LR-240/241/242
Appearance	Colorless to light yellow transparent solid
Volatile matter %	≤ 3 %
Softening point (°C)	60-100
Solubility in toluene (1:1 ratio)	Clear and transparent

Applications

1. Powder Coatings

Incorporated into powder coating formulations to improve heat resistance and weatherability. Demonstrates lower impact on recoatability compared to conventional solid silicone resins.

2. Heat-Resistant Industrial Coatings

Added by physical compounding at a minimum addition level of $\geq 15\%$ (calculated on effective solid content) to achieve targeted temperature resistance. Performance is improved via graft copolymerization.

3. Weather-Resistant Polysiloxane Coatings

Combined with other silicone resins to formulate weather-resistant coatings with improved long-term weatherability and salt spray resistance.

Use Reference

1. Physical Compounding: For liquid formulations, the solid resin can be added directly or pre-dissolved in a compatible solvent before blending with the base organic resin.

2. Graft Modification: When used as a reactive intermediate for graft copolymerization, monitor reaction progress by clear film testing on a glass substrate (glass plate method) to confirm complete grafting.

3. Powder Coating Processing: Process according to standard powder coating extrusion and manufacturing parameters.

Technical Data Sheet



www.silfluosilicone.com

Package & Storage:

In 50kg fiber drum with plastic liner.

Keep sealed in a cool, dry environment at temperatures strictly below 25° C. The shelf life is 12 months from the date of manufacture when stored in original unopened containers (material can still be utilized if it passes quality inspection after the expiration date).