



Silfluo LR-153

Alcohol-soluble Silicone Resin

Description:

The Silfluo LR-153 is a colorless, transparent silicone resin supplied as an ethanol solution. It is synthesized through the condensation of multifunctional silane monomers. Upon curing, it forms a hard, transparent film that provides reliable electrical insulation, abrasion resistance, heat resistance, aging resistance, and radiation resistance. The cured matrix maintains low-temperature flexibility, hydrophobicity, and moisture resistance without compromising optical clarity.

Typical Technical Properties:

Silfluo Code:	LR-153
Appearance	Colorless transparent liquid
Solid content %	30±1
Viscosity (Flow Cup No. 4, 25°C, S)	10-18
Curing Profile:	Surface dry in ≤ 0.5 hours at room temperature; fully cured in 1 hour at 150°C

Application:

1. Plastic Hardcoatings: Applied as a hardening and scratch-resistant coating for transparent plastics, including PMMA (acrylic) and PC (polycarbonate).
2. Electronic Conformal Coatings: Utilized as a dielectric protective coating for circuit boards and electronic components operating in high-temperature and high-humidity environments.
3. Metal & Decorative Protection: Serves as a clear protective finish for metal products and decorative materials to improve wear, UV, water, and corrosion resistance.
4. Glazing Applications: Functions as a transparent glazing finish for paper and ceramic surfaces.

Use Reference

1. Chemical Incompatibility: This product must strictly avoid contact with acids, alkalis, organic salts, and amines. Exposure to these substances will trigger premature crosslinking, cause gelation, and degrade final product performance.
2. Surface Preparation: Substrates must be thoroughly cleaned and degreased using solvents such as ethanol, petroleum ether, or acetone prior to application.
3. Dilution & Curing: Can be diluted with alcohol-based solvents including methanol and ethanol. Following ambient solvent evaporation, the final crosslinking process can be accelerated via thermal baking.

Package & Storage:

In 200kg drum.

Technical Data Sheet



www.silfluosilicone.com

Keep in cool, dry place. Avoid acid and alkali contact. Avoid direct sunlight. Classified and transported as dangerous goods .

Nanjing Silfluo New Material Co., Ltd.

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