Technical Data Sheet

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Alcohol-soluble Silicone Resin LR-153

Description:

This product is a colorless, transparent organic silicone resin ethanol solution, synthesized through the condensation of multifunctional silicone monomers. Once cured, the film is hard and clear, offering excellent insulation, friction resistance, heat resistance, aging resistance, and radiation resistance. It remains flexible at low temperatures, is hydrophobic and moisture-resistant, and provides high transparency along with other beneficial properties.

Typical Technical Properties:

Items	Index
Appearance	Colorless transparent liquid
Solid content %	30±1
Viscosity (4# Cup, 25°C) S	10-18
Drying time ≤	Surface drying 0.5h, 150°C 1h

Application:

It is widely used as a hardening coating for transparent plastics such as organic glass (PMMA) and polycarbonate (PC), as well as a glazing coating for paper and ceramics.

Additionally, it serves as an insulating encapsulation coating for electronic and electrical components exposed to high temperatures and humidity, such as high-frequency circuit boards.

Furthermore, it functions as a protective coating for various metal products and decorative materials, enhancing their wear resistance, aging resistance, water resistance, UV resistance, and corrosion resistance.

Package &Storage:

In 200kg drum.

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

Use Reference:

1. This product should not come into contact with acids, bases, organic salts, or amines, as these may accelerate curing, cause gelation, and negatively impact product performance.
2. It can be diluted with alcohol-based solvents such as methanol or ethanol. Before application, the substrate surface should be thoroughly cleaned using ethanol, gasoline, or acetone. After solvent evaporation, the curing process can be accelerated through baking.