Technical Data Sheet

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Silfluo LR-ELS400

Phenyl-Modified Viscoelastic Silicone Putty

Description:

Silfluo LR-ELS400 is a phenyl-modified viscoelastic silicone putty designed for vibration damping and shock absorption. The introduction of phenyl groups disrupts polymer crystallization, allowing the material to maintain flexibility and viscoelasticity at temperatures down to -120°C. The cured matrix exhibits ozone resistance, radiation resistance, ablation resistance, and self-extinguishing properties.
Chemical Name: Elastic Mastic / Elastic Putty, Damping Material, Damping Grease, Mastic, Elastomeric Damping Material, Viscoelastic Damping Elastomer, Damping Materials & Elastomers, High Phenyl Elastic Putty;

Typical Technical Properties:

Appearance: Grey viscous liquid
Phenyl content (mol%): 2.0-30.0
Viscosity(25℃, mPa.s): 2000-10 million

Applications:

1. Vibration Damping & Shock Absorption: Utilized as an elastomeric damping material in structural components for aerospace, high-speed rail, commercial aircraft, and marine vessels.
2. Heavy Infrastructure: Applied as a shock-absorbing mastic in bridges, metallurgy equipment, mining machinery, and offshore sea platforms.
3. Defense & Extreme Environments: Deployed in armored vehicles (tanks) and nuclear submarines where extreme low-temperature flexibility, radiation resistance, and ablation resistance are required.

Package &Storage:

In 20kg pail, 200kg drum
Keep in a cool, dry, and well-ventilated environment, strictly avoiding direct sunlight and ignition sources. The shelf life is 60 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). Classified and transported as a non-hazardous substance.

Nanjing Silfluo New Material Co., Ltd.
Web: www.silfluosilicone.com Email: inquiry@silfluo.com

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