

Durle® SI-3049 Polyimide(PI) Resin

Product Durle® SI-3049 is a thermoplastic polyimide (TPI) resin produced through advanced

Introduction manufacturing processes. It exhibits plastic deformation at high temperatures, endowing the resin with excellent high-temperature melt flow characteristics and adhesion properties, along with superior processability during application. Additionally, the resin demonstrates outstanding heat resistance, flexibility, and corrosion resistance.

Key Characteristics:

1. Continuous service temperature exceeding 190°C.
2. Exceptional flame resistance without requiring flame retardant additives.
3. Excellent electrical properties (low dielectric constant and dissipation factor across broad frequency and temperature ranges).
4. Superior chemical and radiation resistance.
5. Unique combination of strength and rigidity.
6. Strong adhesion to metal substrates.

◆ High temperature resistance ◆ High insulation ◆ Corrosion resistance

※ The solvent component of this resin is NMP.

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- Application**
- ✓ High temperature resistant coatings.
 - ✓ High temperature resistant adhesives.
 - ✓ Enameled wire.
 - ✓ Coatings
 - ✓ Electrical products
 - ✓ High temperature decorative and anti-corrosive fields.
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Product	Appearance:	Reddish brown liquid
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Index	Viscosity:	8,000-18,000cps
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	Specific Gravity:	1.00-1.20
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Solid Content:	29.00%-32.00%
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Tg:	230℃
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Method of application	It can be ground together with pigments or added as the primary resin.
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Storage	Store at temperatures between -5℃ to 40℃, protected from direct sunlight. Shelf life: 12 months (unopened).
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Packaging	50kg/plastic drum; 200kg/plastic drum
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Discharge	Do not discharge it into the wastewater system, put it in a specific container for professional disposal.
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Emergency treatment	1. In case of leakage or spillage, collect it in a container and clean the ground pollutants with a cloth. 2. If this product accidentally come into contact with the eyes, rinse immediately with plenty of water for at least 15 minutes. If discomfort persists, seek medical attention immediately. 3. If this product comes into contact with the skin, wash with water and soap. Seek medical attention immediately if discomfort occurs. 4. If discomfort occurs from accidental inhalation of spray, move to fresh air immediately and seek medical attention without delay
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