

ESLAST 5220 series

ESLAST 5240 series

Two to polymer introduces **es Elast**, a comprehensive line of advanced silicone based adhesives and sealants of various curing systems. **ESLAST 5220** series are single component silicones while **ESLAST 5240** series are dual component silicones which utilize a simple one to one mix ratio. **ESLAST 5220** and **ESLAST 5240** series are formulated for fast curing either through vulcanizing at room temperature or under exposure to ultraviolet and heat. **ESLAST 5220** and **ESLAST 5240** series cured with heat offer low odour, non corrosive, high flexibility and excellent adhesive to most substrates. **ESLAST 5220** and **ESLAST 5240** series cured with UV offer extremely high service temperature and excellent resistance to mechanical impact, vibrations, moisture, heat and weathering. **ESLAST 5220** and **ESLAST 5240** series are best suited for protection of electronics components and circuitry.

Key Characteristics & Features

ESLAST 5220 series

CURING SYSTEM: Single component ultraviolet or heat curing

SECONDARY CURING SYSTEM: Moisture

NEUTRAL CURING

- Low odour with no volatile inert
- Non-acidic & non corrosive curing permit use on metallic substrates & electronics components.

EXCELLENT FLEXIBILITY

- Permit stress & strain relief
- Provide shock & impact damping
- Protect against dynamic loading & stress from shock, drop, impact & vibration

EXCELLENT HIGH SERVICE TEMPERATURE

- Enhance resistance & reliability of assembly against high temperatures & temperature cycling
- Remain flexible & inert over a wide range of temperature

HIGHLY RESISTANT PROTECTION

- Remain inert & resistant when exposed to weathering, moisture, ozone, vibrations, oils, chemicals, mechanical impacts & temperature extremes.
- Enhance resistance & protection of assembly
- Permit service under demanding environmental conditions

Typical Applications

- Bonding, sealing & coating of various substrates such as rubbers, glass, ceramics, plastics, metals, etc for service under demanding environmental conditions & of temperature extremes
- Fixing of wires & components on printed circuit boards
- Conformal coating of printed circuit boards & flexible printed circuits
- Strengthening of connectors, plugs & switches during use
- Strengthening of optical pickup & delicate assemblies against shock & vibrations
- Protective sealing, coating, potting & encapsulating of electronic component & circuitry
- Sealing of gasoline & petroleum tanks & containers, fluid tanks, automotive electronics & sensors
- Heat resistant coating of heating devices, heating elements, microwave ovens & thermal sensors

Ordering Information

Product line: ESLAST

Grade: ES-5220, ES-5221, ES-5223, ES-5224, ES-5227, ES-5228, ES-5240, ES-5241

Material: Additional features such as different colour & viscosity, thermal conductive, electrical conductive & high dampening are available on request.

Brochure: Technical & Material Safety Datasheets are available on request.

Package Size: Available in 60 gm tube, 300ml cartridge & 1 kg can. Other packaging & size available on request.

MSDS: Information on restricted hazardous substances are available on request.



Selection & Classification

Self-leveling liquid **EELAST 01-001** **EELAST 01-002**



Viscous liquid **EELAST 01-003** **EELAST 01-004**



Non-stag paste **EELAST 01-001** **EELAST 01-004** **EELAST 01-003** **EELAST 01-001**



Typical Material Properties

EELAST series	ES-0220	ES-0221	ES-0225	ES-0226
Appearance	Translucent	Translucent	Clear	Clear
Classification	Viscous liquid	Non stag paste	Self leveling liquid	Non stag paste
Initial Curing	3,000 mJ / cm ² of 874-A	3,000 mJ / cm ² of 874-A	120°C for 10 minutes	120°C for 20 minutes
Viscosity @ 25°C, cP	40,000	300,000	500	500,000
Hardness, Shore A	30	30	10	15
elongation @ break, %	N.A.	200	N.A.	200
Tensile Strength, MPa (PSI)	1.4 - 2.1 (200-300)	2.4 - 4.1 (350-600)	1.0 - 1.7 (150-250)	1.7 - 2.4 (250-350)
Service Temperature, °C	-40 to 220	-40 to 220	-40 to 240	-40 to 240

EELAST series	ES-0227	ES-0228	ES-0240	ES-0241
Appearance	Translucent	Translucent	Black	Translucent
Classification	Self leveling liquid	Non stag paste	Viscous liquid	Non stag paste
Initial Curing	5 min of 874 @ 25°C	8 min of 874 @ 25°C	5 min of vis. cure @ 25°C	120°C for 10 min
Viscosity @ 25°C, cP	34,000	400,000	50,000	100,000
Hardness, Shore A	25	40	30	34
elongation @ break, %	300	350	300	480
Tensile Strength, MPa (PSI)	1.0 - 1.7 (150-250)	1.7 - 2.4 (250-350)	1.0 - 1.7 (150-250)	1.7 - 2.4 (250-350)
Service Temperature, °C	-40 to 240	-40 to 240	-40 to 240	-40 to 240