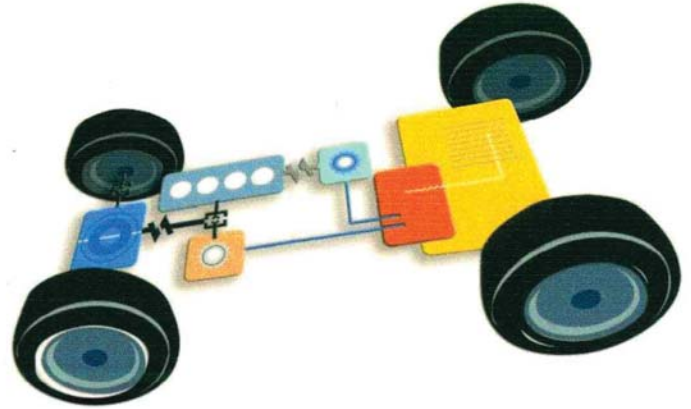




MOMENTIVE
performance materials

Silicone Material Solutions for Alternative Powertrain Electronics

Designing for the future



SilCool* Thermal Management Materials

consider for excellent heat transfer

- Low thermal resistance
- Thin bond line capability
- High thermal conductivity
- Greases, adhesives, potting compounds available

Potting and Encapsulants

consider for module potting and protection of electronics

- Self-healing gels
- Low modulus
- Outstanding stress protection
- Room temperature or heat cure

Fast Cure Primerless Adhesives and Sealants

consider for module lid attach and case gaskets/seals

- High strength
- Fast tack free and cure times
- High temperature stability
- Primerless adhesion to many engineered plastics

Conformal Coatings

consider for circuit board protection

- Low viscosity
- UV tracer for quality control
- Fast room temperature cure for sensitive components

For more information, contact
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Momentive's silicones are used in automotive applications today, typically offering outstanding temperature stability (-55°C - 200°C), excellent dielectric performance, design flexibility, and protection to help increase component reliability under harsh operating conditions. Momentive offers free Application Technology Support, including substrate/part adhesion testing.

highlights of product offering

Typical Properties	Conformal Coating Potting/Encapsulants			Thermal Management			Lid Attach, Gaskets and Sealants		
	ECC3050S	RTV6136	FRV138	TIG210BX	TSE3331	SilCool* LTR3292 Adhesive	TSE322	RTV1473	SnapSil* RTV200 series Adhesives
Description	Low viscosity, conformal coating	Fast cure dielectric gel	Soft rubber, fluorosilicone encapsulant	Low oil bleed (<0.1% ⁽¹⁾), thermally conductive (2.1 W/mK) grease	Thermally conductive (0.63 W/mK), UL recognized, adhesive/potting compound	Low thermal resistance, fast cure thermally conductive adhesive (1.6 W/mK)	Electronics adhesive with excellent adhesion	Heavy-bodied paste adhesive, excellent candidate for form-in-place gaskets	Fast cure, quick green strength adhesive
Form	One part	Two part (mix ratio 1:1)	Two part (mix ratio 1:1)	One part	Two part (mix ratio 1:1)	One part	One part (variable mix ratio)	One part	Two part
Cure	Room temperature, heat bumpable (TFT ~3 min at 60°C)	Room temperature or heat	Heat	NA	Heat	Heat	Heat	Room temperature	Room temperature
Color (Final Product)	Translucent (with UV tracer)	Translucent	Translucent	Gray	Dark gray	Gray	Light blue	Black	Gray-black
Viscosity (cps)	550	750	(A) 11,500 (B) 8,000	Paste	3,500	30,000	110,000	Paste	Paste
Specific Gravity	0.98	0.98	1.3	NA	1.51	2.60	1.27	1.06	1.35
Hardness/ Penetration	22 Shore A	6.0 mm penetration	55 Shore 0	340	60 type A	80 Shore A	45 type A	30 shore A	33-35 shore A
Tensile Strength MPa (psi)	NA	NA	0.30 (44)	NA	2.9 (421)	2.6 (375)	3.4 (495)	3.1 (450)	1.72 (250)
Elongation (%)	NA	NA	73	NA	70	49	230	500	250
Dielectric Strength kV/mm (V/mil)	20 (500)	20 (500)	NA	3.0kV/0.25mm	26 (650)	NA	20 (500)	NA	NA

(1) at 150°C/24h, JIS K 2220

Typical data. Actual values may vary.

Please contact your local account manager for product availability in your country.

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