

SD101 & SD140 Kits

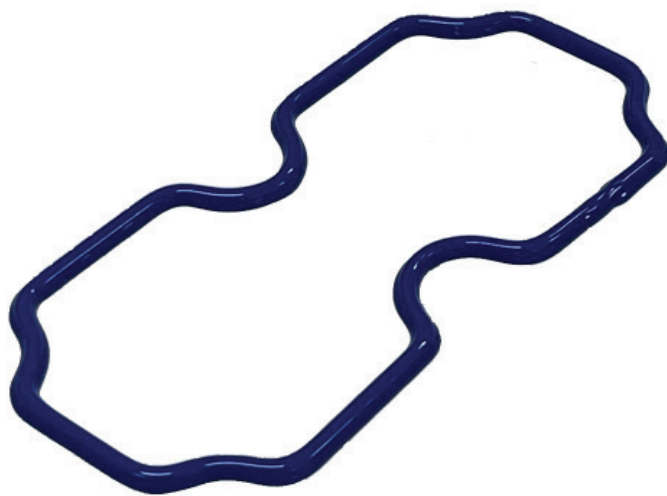
Dispensable Silicones for
Electric Vehicles (EV)



True Elastomer Performance:

Parker's new Cure-in-Place Gasket (CIPG) silicones SD101 and SD140 are revolutionary products that combine the high performance of traditional molded gaskets with the application versatility of liquid-dispensed materials. This unique blend of properties results in a true elastomer performance, providing an optimal solution for a wide array of sealing applications.

The CIPG silicone is designed to maintain its resilience, flexibility, and sealing effectiveness under varying temperature conditions, pressure, and environmental factors. This makes it an excellent choice for applications requiring a durable and reliable seal.



Contact Information:

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Recommended For Use In:

- Used for drive unit, AC-DC inverter, and battery enclosure sealing
- Flame resistant: UL94 HB
- Ultra low viscosity for drive units
- Traditional 2-part metered dose dispensing units
- Parker CIPG chemistry can be customized to business case for cure speed, viscosity, load deflection, durometer, and more



ENGINEERING YOUR SUCCESS.

Cure-in-Place Seal Performance



The innovative aspect of Parker’s CIPG silicone lies in its application process. Unlike conventional gaskets that require specific molds and additional assembly steps, the CIPG silicone is a liquid-dispensed material. This means it can be directly applied to the component or assembly, where it then cures in place to form a robust, custom-fit seal. This Cure-in-Place process significantly reduces the complexity and time involved in gasket assembly, offering significant advantages in terms of production efficiency

and cost-effectiveness. Moreover, the Form-in-Place Gaskets (FIPG) and CIPG technologies allow for the creation of complex gasket geometries that would be difficult to achieve with traditional molding techniques, further expanding the potential use cases for this versatile material.

Dispensable Technical Data Sheet		
	SD101	SD140
Viscosity	1:1 dispensed through a 24-flight static mixing tube. SD101-Part A is green and SD101-Part B is white	1:1 dispensed through a 24-flight static mixing tube. SD140-Part A is blue and SD140-Part B is white
Cure time	72 hours at 74°F (23 °C). Cure time is temperature dependent and can be accelerated by heating. Cure time can be accelerated to 5 minutes at (302°F) 150°C.	20 minutes at 74°F (23 °C). Tack free after 10 minutes at 74°F (23°C). Cure time is temperature dependent and can be accelerated by heating.



Technical Data Sheet

		SD101	SD140
Original physical properties	Test method	Test results	Test results
Hardness, shore A, pts.	ASTM D2240	50	44
Tensile strength, psi	ASTM D412	1317	342
Ultimate elongation, %	ASTM D412	493	129
Specific gravity	ASTM D297	1.09	1.03
Compression Set, 22 hrs. at 212°F (100°C)			
Percent of original deflection, max	ASTM D395 Method B	4	19
25% Squeeze			
Compression Set, 22 hrs. at 212°F(100°C)			
Percent of original deflection, max	ASTM D395 Method B	4	19
50% Squeeze			
Compression Set. 70 hrs. at 104°F (40°C)			
Percent of original deflection, max	ASTM D395 Method B	3	10
25% Squeeze			
Compression Set 70 hrs. at 104°F (40°C)			
Percent of original deflection, max	ASTM D395 Method B	5	6
50% Squeeze			
Fluid Immersion, Water, 24 hrs. at 72°F (23°C)			
Volume change, %	ASTM D471	0	3
Compression stress relaxation, 1008 hrs. @212°F (100°C), air, 0.5" button			
Force retention (%)			
F24		84	78
F168		81	67
F504		79	50
F1008		76	47



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