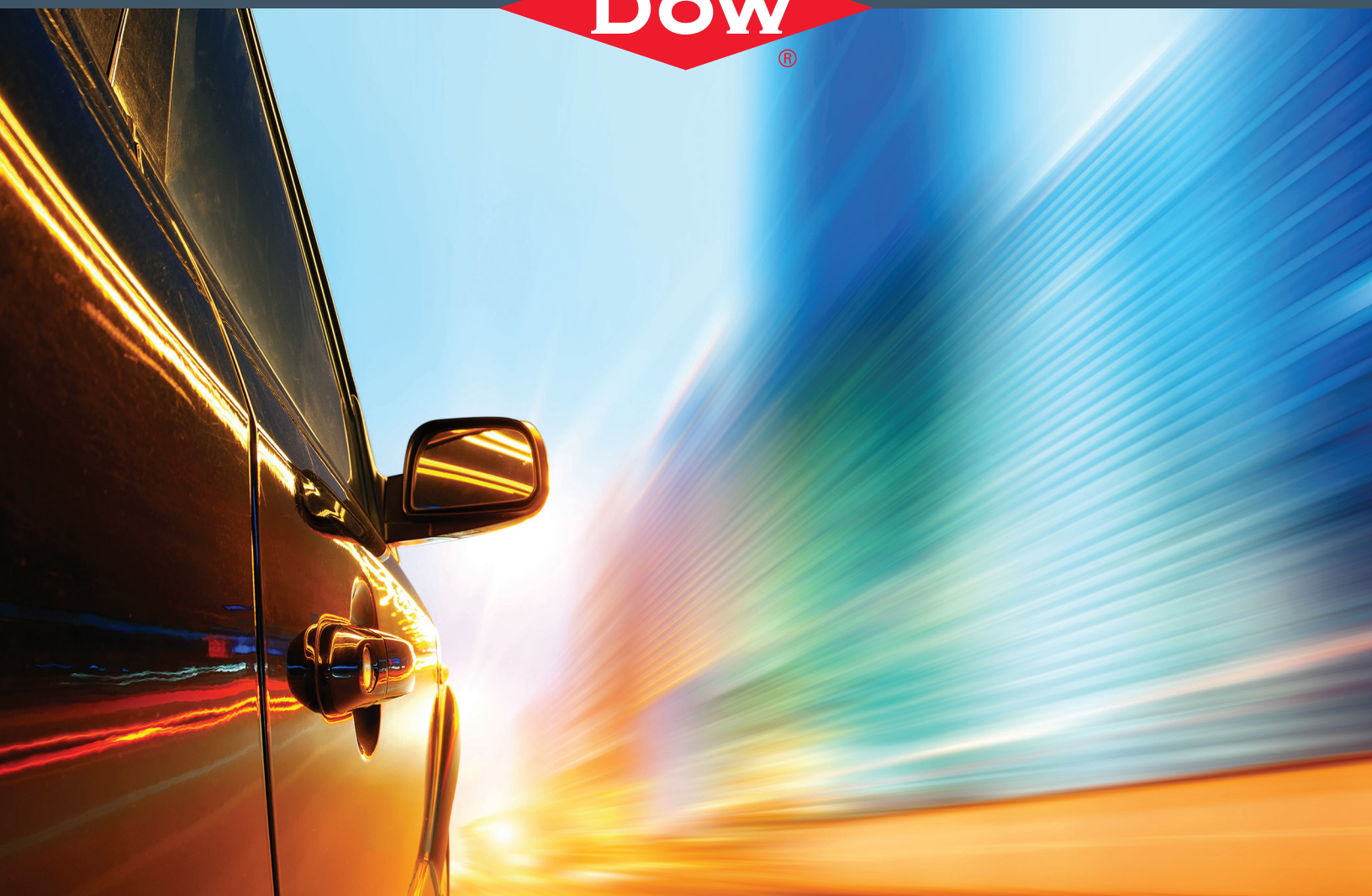


# Engineered elastomer solutions for vehicle systems design

Smart science drives component  
durability innovation



# Design for process efficiency and performance durability

Meet trend-driven design needs for energy efficiency, greater comfort, safety and sustainability with engineered elastomers from Dow. Our selection of advanced silicone and fluorosilicone rubber elastomers can help you achieve:

- **Energy efficiency** by enabling lightweight design with proven mechanical and environmental resistance
- **Driving comfort** by reducing squeaks; rattles; and noise, vibrations and harshness (NVH)
- **Safety** by improving component durability and safety system reliability
- **Sustainability** with efficient processing and increased service life of components

Choose from a wide range of high-performance engineered elastomers to meet your requirements for efficient processing and durable performance:

- High-consistency silicone rubber (HCR)
- Liquid silicone rubber (LSR)
- Fluorosilicone rubber (FSR)
- Fluoro liquid silicone rubber (F-LSR)

Key performance advantages of these engineered elastomer technologies from Dow include:

- Excellent resistance to fuel, oil and solvents
- Wide service-temperature range from -40 to 316°C (-40 to 600°F)
- Stable electrical insulating properties when exposed to severe-duty service requirements
- Excellent mechanical strength and flexibility with durable resistance to aging, cracking, softening and compression set
- Application-matched choices in hardness, specific gravity, tensile strength, elongation, color and flow properties
- Process-matched compounds and standard



## Innovate with smart science

Proven, effective engineered elastomer solutions from Dow can help you meet vehicle system design goals for innovation in process efficiency and performance durability:

### Powertrain

- 1 Anti-drainback oil filter valve
- 2 Cylinder head
- 3 Oil pan
- 4 Air intake manifold
- 5 Fuel delivery diaphragms
- 6 EGR valve diaphragms
- 7 Fuel quick-connect seals
- 8 Turbocharger, intercooler hoses
- 9 Radiator seals
- 10 Engine coolant hoses
- 11 Heater hoses
- 12 Transmission seals
- 13 Driveline CVJ boots
- 14 Engine mounts, exhaust hangers

### Chassis and brakes

- 15 Gaskets and seals
- 16 Bellows, dust covers, boots

### Electrical

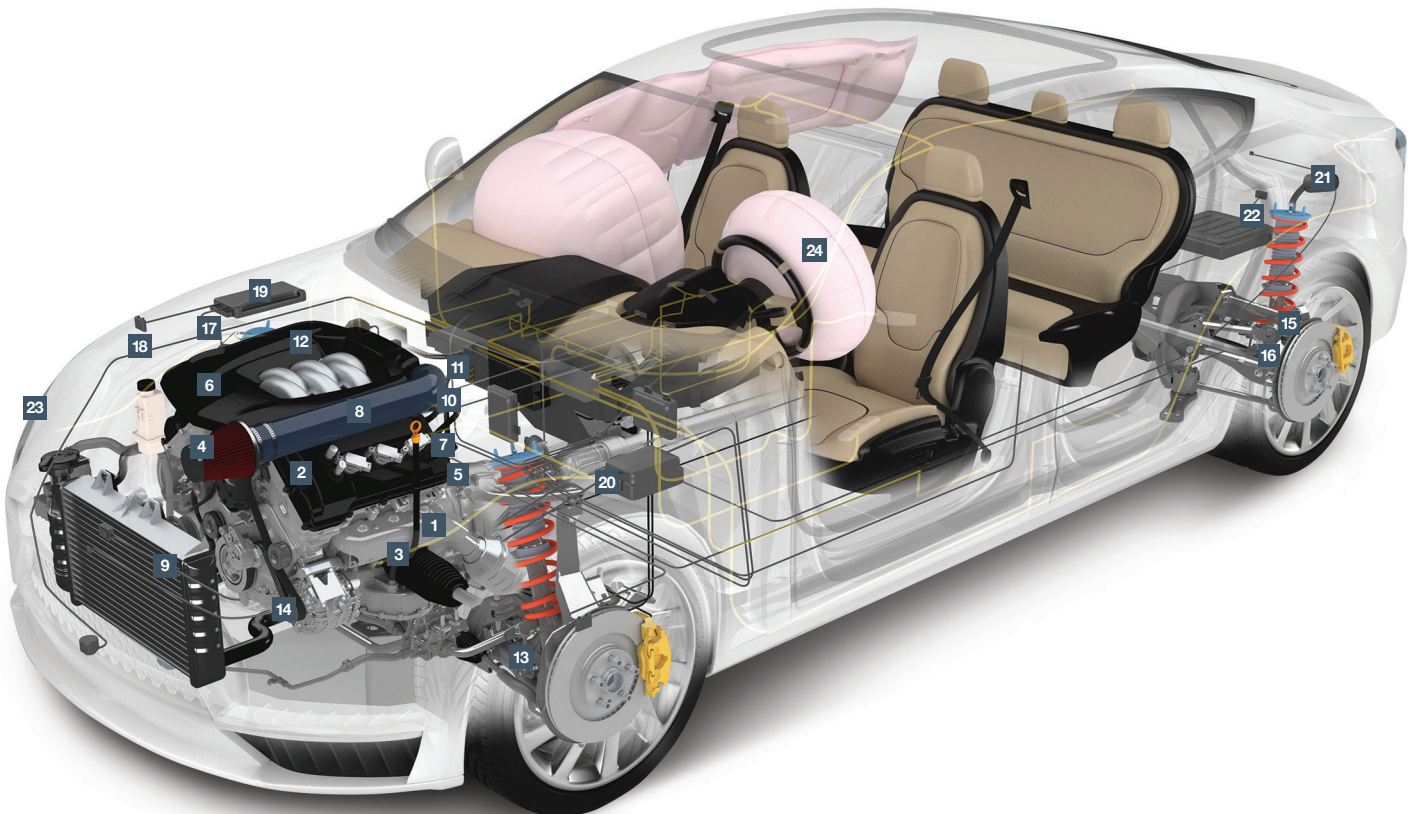
- 17 Wire harness connectors
- 18 Coil-to-plug wire insulation
- 19 Spark plug boots
- 20 Ignition cable insulation
- 21 HEV-EV charging cable insulation
- 22 Battery connector seals

### Exterior

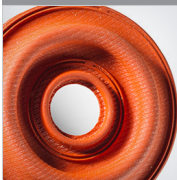
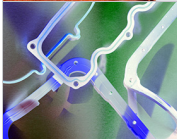




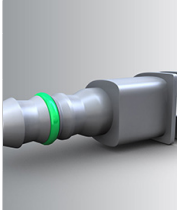
- 23 Lighting

### Safety

- 24 Airbag fabric coatings









# Selection guide: Engineered elastomers

APPLICATION		DESIGN NEEDS	POTENTIAL SOLUTIONS	REGIONAL AVAILABILITY			
Powertrain systems				NA	LA	EMEAI	APAC
	<b>Anti-drainback oil filter valve</b>	<ul style="list-style-type: none"> <li>Stable mechanical properties</li> <li>Resistance to engine oils, including synthetics</li> <li>Resistance to hardening or softening over a wide range of service temperatures</li> </ul>	<b>Liquid silicone rubber (LSR):</b> SILASTIC™ 9390-70 Liquid Silicone Rubber <b>Rubber compounds for fabricated parts:</b> XIAMETER™ 21068-V Silicone Rubber	•	•	•	•
	<b>Oil pan gasket</b>	<ul style="list-style-type: none"> <li>Good resistance to engine oils, including synthetics</li> <li>Resist compression set and retain flexibility across service temperature range</li> </ul>	<b>Rubber compounds for fabricated parts:</b> XIAMETER™ Q4-2918 Silicone Rubber Compound XIAMETER™ Q4-2918LV Silicone Rubber Compound	•			
	<b>Rocker cover gasket</b>	<ul style="list-style-type: none"> <li>Good oil resistance</li> <li>Good compression set resistance and compression stress relaxation</li> </ul>	<b>Rubber compounds for fabricated parts:</b> XIAMETER™ MX 4108 Silicone Rubber XIAMETER™ Q4-2918 Silicone Rubber Compound XIAMETER™ Q4-2918LV Silicone Rubber Compound XIAMETER™ 24048-V Silicone Rubber XIAMETER™ 24057-V HCR Compound XIAMETER™ 24096-V Silicone Rubber XIAMETER™ 24097-V HCR Compound <b>Cured-in-place gasketing (CIPG):</b> SILASTIC™ RBL-9694-30P Liquid Silicone Rubber SILASTIC™ RBL-9694-45M Liquid Silicone Rubber	•	•	•	•
	<b>Air intake manifold gasket</b>	<ul style="list-style-type: none"> <li>Oil resistance</li> <li>Good aging in hot fuel vapors</li> <li>Good resistance to compression set</li> </ul>	<b>Cured-in-place gasketing (CIPG):</b> SILASTIC™ RBL-9694-30P Liquid Silicone Rubber SILASTIC™ RBL-9694-45M Liquid Silicone Rubber	•	•	•	•
	<b>Fuel delivery diaphragms</b>	<ul style="list-style-type: none"> <li>Long-term fuel resistance</li> <li>Good flexibility over a wide range of service temperatures</li> </ul>	<b>Fluoro-liquid silicone rubber (F-LSR):</b> SILASTIC™ FL 30-9201 Fluoro Liquid Silicone Rubber SILASTIC™ FL 40-9201 Fluoro Liquid Silicone Rubber SILASTIC™ FL 60-9201 Fluoro Liquid Silicone Rubber <b>Fluorosilicone rubber compounds (FSR):</b> SILASTIC™ EFX20MHS00 Fluorosilicone Compound SILASTIC™ EFX30MHS00 Fluorosilicone Compound SILASTIC™ EFX60MLC00 Silicone Rubber SILASTIC™ FCM 55-1241-FX Fluorosilicone Compound SILASTIC™ FCM 60-1278-FX FSR Rubber SILASTIC™ 28075HD-V Fluorosilicone Rubber SILASTIC™ 28819-V Fluorosilicone Compound SILASTIC™ 38640-V Fluorosilicone Rubber	•	•	•	•
	<b>Exhaust gas recirculation (EGR) valve diaphragms</b>	<ul style="list-style-type: none"> <li>Good fuel resistance</li> <li>Durable flexibility in high service temperatures (200°C)</li> </ul>	<b>Fluoro-liquid silicone rubber (F-LSR):</b> SILASTIC™ FL 30-9201 Fluoro Liquid Silicone Rubber SILASTIC™ FL 40-9201 Fluoro Liquid Silicone Rubber SILASTIC™ FL 60-9201 Fluoro Liquid Silicone Rubber <b>Fluorosilicone rubber compounds (FSR):</b> SILASTIC™ EFX70MLC00 Silicone Rubber SILASTIC™ 28075HD-V Fluorosilicone Rubber	•	•	•	•
	<b>Fuel delivery quick-connector seals</b>	<ul style="list-style-type: none"> <li>Fuel resistance</li> <li>Good flexible in heat/cold</li> <li>Good permeation resistance</li> <li>Good compression set resistance and stress relaxation properties</li> <li>Low swell</li> <li>High tear strength</li> </ul>	<b>Fluorosilicone rubber compounds (FSR):</b> SILASTIC™ EFX70MLC00 Silicone Rubber SILASTIC™ EFX75MLC10 Fluorosilicone Rubber SILASTIC™ FCM 75-4955 LC Silicone Rubber SILASTIC™ 28075HD-V Fluorosilicone Rubber	•	•	•	•



APPLICATION		DESIGN NEEDS	POTENTIAL SOLUTIONS	REGIONAL AVAILABILITY			
Powertrain systems (continued)				NA	LA	EMEA	APAC
	<b>Turbocharger, intercooler hoses</b>	<ul style="list-style-type: none"> <li>Withstand a wide range of service temperatures</li> <li>Good resistance to fuel, oil and exhaust gases</li> <li>Good interlayer adhesion without cracking or peeling</li> <li>High mechanical strength</li> </ul>	<b>Silicone rubber compounds for outer layers:</b>				
			SILASTIC™ HCC 65-1027-NP HCR Compound	•			
			SILASTIC™ HCC 70-1012-GP Silicone Rubber	•		•	
			SILASTIC™ HCC 70-1031-NP HCR Compound	•			
			<b>Self-adhesive rubber compounds:</b> <i>Intermediate layer:</i>				
			SILASTIC™ HCE 70-4770 SA Silicone Rubber	•	•	•	•
			<b>Fluorosilicone rubber compound for hose liners:</b>				
SILASTIC™ FCC 55-1047-FX Fluorosilicone Rubber	•	•	•	•			
SILASTIC™ FCE 50-4948 SA Silicone Rubber	•	•	•	•			
	<b>Radiator seals</b>	<ul style="list-style-type: none"> <li>Seal in coolant</li> <li>Maintain sealing performance from -50 to 200°C and at pressures up to 20 psi</li> <li>Provide compression gasket for engineered groove</li> </ul>	<b>Cured-in-place gasketing (CIPG):</b>				
			SILASTIC™ RBL-9694-30P Liquid Silicone Rubber	•	•	•	•
			XIAMETER™ RBL-2004-70 Liquid Silicone Rubber	•		•	•
	<b>Water coolant hoses and radiator hoses</b>	<ul style="list-style-type: none"> <li>Good chemical/solvent resistance</li> <li>Durable high-temperature performance</li> <li>Easy processing for calendering or extrusion</li> </ul>	<b>Silicone rubber bases:</b>				
			XIAMETER™ RBB-2100-60 Base	•	•	•	•
			<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ HCR 65-1030-NP Silicone Rubber	•			
			SILASTIC™ HCE 70-1026-NP Silicone Rubber	•			
			SILASTIC™ 20031-D BLU Silicone Rubber Blue	•			
			SILASTIC™ 20032-D RED Silicone Rubber Red	•			
SILASTIC™ 20039-D GRN Silicone Rubber Green	•						
SILASTIC™ 20063-L BLK Silicone Rubber Black	•						
SILASTIC™ 20093-T Red Silicone Rubber Red	•						
	<b>Low-pressure heater hoses</b>	<ul style="list-style-type: none"> <li>Good chemical/solvent resistance</li> <li>Durable high-temperature performance</li> <li>Easy processing for calendering or extrusion</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ 27788-Z Silicone Rubber	•	•	•	•
			SILASTIC™ 27790-Z Silicone Rubber	•			
	<b>CVJ boots</b>	<ul style="list-style-type: none"> <li>High flex-fatigue life</li> <li>Durable flexibility over a wide temperature range</li> <li>Good resistance to lubricants and road contaminants</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ HCM-1102 Silicone Rubber	•			
			XIAMETER™ EHP60MHS01 Silicone Rubber	•		•	
	<b>Engine mounts, exhaust hangers</b>	<ul style="list-style-type: none"> <li>High tear strength</li> <li>Stable mechanical properties</li> <li>Long-term resistance to extreme heat and cold</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			XIAMETER™ HCM 75-4731 LC Silicone Rubber	•	•	•	•
			XIAMETER™ 21058-V Silicone Rubber	•			
			XIAMETER™ 24104-V Silicone Rubber	•			
			XIAMETER™ 24140-V Silicone Rubber	•			
XIAMETER™ 24142-V Silicone Rubber	•						

**NOTE:** These silicone and fluorosilicone engineered elastomers are proven, effective solutions for vehicle systems design innovation. Contact your Dow representative for product options to meet specialized requirements.

# Selection guide: Engineered elastomers

APPLICATION		DESIGN NEEDS	POTENTIAL SOLUTIONS	REGIONAL AVAILABILITY			
Chassis and brake systems				NA	LA	EMEAI	APAC
	<b>Bellows, dust covers, boots, gaskets, seals</b>	<ul style="list-style-type: none"> <li>• Good mechanical properties</li> <li>• Tear strength</li> <li>• Weatherability</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ HCM 1102 Silicone Rubber	•			
			XIAMETER™ EHP60MHS01 Silicone Rubber	•		•	
<b>Electrical systems</b>							
	<b>Wire harness connector seal HEV/EV battery connector seals</b>	<ul style="list-style-type: none"> <li>• Watertight protection</li> <li>• Heat and fluid resistance</li> <li>• Easy assembly with self-lubricating properties</li> <li>• High mechanical strength</li> <li>• Easy processing</li> <li>• Watertight protection</li> <li>• Heat and fluid resistance</li> <li>• Easy assembly with self-lubricating properties</li> <li>• High mechanical strength</li> <li>• Easy processing</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ WS 190-60-01 Silicone Rubber	•		•	
			XIAMETER™ 20003-V Silicone Rubber	•			
			XIAMETER™ 20018-V Silicone Rubber	•			
			XIAMETER™ 22013-V Silicone Rubber	•			
			XIAMETER™ 23010-V Silicone Rubber	•			
			XIAMETER™ 23023-V Silicone Rubber	•			
			XIAMETER™ 23077-V Silicone Rubber	•			
			XIAMETER™ 23084-V Silicone Rubber	•			
			XIAMETER™ HCM 18-1265 Silicone Rubber	•			
			XIAMETER™ HCM 18-1303 Silicone Rubber	•			
			<b>Liquid silicone rubber (LSR):</b>				
			SILASTIC™ 9201-50 Liquid Silicone Rubber	•	•	•	•
			SILASTIC™ 9202-30 Liquid Silicone Rubber	•		•	•
			SILASTIC™ 9202-50 Liquid Silicone Rubber	•	•	•	•
			SILASTIC™ 9204-30 Liquid Silicone Rubber	•	•	•	•
			SILASTIC™ 9204-50 Liquid Silicone Rubber	•		•	•
SILASTIC™ LTC 9402-50 Liquid Silicone Rubber	•		•				
SILASTIC™ LC40-9001 Liquid Silicone Rubber	•						
SILASTIC™ LC30-9422 Liquid Silicone Rubber	•						
<b>Fluorosilicone rubber compounds (FSR):</b>							
SILASTIC™ FCM 35-1244 Fluorosilicone Compound	•						
SILASTIC™ FCM 40-1174 Fluorosilicone Compound	•						
SILASTIC™ FCM 40-1195 Fluorosilicone Compound	•						
	<b>Distributorless ignition (DLI) plug wire</b>	<ul style="list-style-type: none"> <li>• Weatherability</li> <li>• Wide range of service temperatures</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			XIAMETER™ 29046B-T Silicone Rubber	•			
	<b>Spark plug boots</b>	<ul style="list-style-type: none"> <li>• Electrical insulation for high voltages</li> <li>• High service temperatures</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			XIAMETER™ 23004-V Silicone Rubber	•			•
XIAMETER™ 25065-V Silicone Rubber	•						
	<b>Ignition cable insulation</b>	<ul style="list-style-type: none"> <li>• Electrical insulation for high voltages</li> <li>• High service temperatures</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			XIAMETER™ 23004-V Silicone Rubber	•			•
	<b>Hybrid and electric vehicle charging cable insulation</b>	<ul style="list-style-type: none"> <li>• Reliable electrical insulation</li> <li>• High mechanical strength and flexibility</li> <li>• Low flammability</li> <li>• Weatherability</li> </ul>	<b>Rubber compounds for fabricated parts:</b>				
			SILASTIC™ RBC 7100-60 Compound	•	•	•	•

**NOTE:** These silicone and fluorosilicone engineered elastomers are proven, effective solutions for vehicle systems design innovation. Contact your Dow representative for product options to meet specialized requirements.

APPLICATION		DESIGN NEEDS	POTENTIAL SOLUTIONS	REGIONAL AVAILABILITY			
Exterior systems				NA	LA	EMEA	APAC
	<b>Lighting - secondary optics</b>	<ul style="list-style-type: none"> <li>• Optically clear</li> <li>• Good mold flow</li> <li>• Excellent feature reproduction</li> <li>• Lighter than glass</li> </ul>	SILASTIC™ MS-1001 Moldable Silicone	•	•	•	•
			SILASTIC™ MS-1002 Moldable Silicone	•	•	•	•
Safety systems							
	<b>Airbag coating and sealing</b>	<ul style="list-style-type: none"> <li>• High performance at lower coating weights</li> <li>• High thermal resistivity</li> <li>• Excellent adhesion to PET and PA</li> <li>• Foldability</li> <li>• Flexibility</li> </ul>	<b>Coatings</b>				
			Flat fabric:				
			SILASTIC™ LCF 3600 Coating	•		•	•
			One-piece woven (OPW)				
			SILASTIC™ LCF 3760 Liquid Silicone Rubber	•		•	•
			SILASTIC™ 3715 Curing Agent	•	•	•	•
			<b>Seam sealant</b>				
SILASTIC™ SE 6777 LSR	•	•	•	•			

**NOTE:** These silicone and fluorosilicone engineered elastomers are proven, effective solutions for vehicle systems design innovation. Contact your Dow representative for product options to meet specialized requirements.





## Learn more: contact us

To learn more about how our engineered elastomers can help meet challenging design needs in automotive and transportation applications, contact your Dow Technical Representative, visit [www.dow.com](http://www.dow.com).



## Sustainable design solutions

Enhance your vehicle systems design sustainability with silicone and fluorosilicone engineered elastomers from Dow. These advanced elastomer technologies can be custom-formulated for specified performance characteristics, regulatory standards and specialized process requirements. They are proven, effective solutions that can resist degradation from alternative fuels, synthetic oils and aggressive fluids; withstand increased operating temperatures; help reduce material consumption in lighter-weight vehicles; and aid local production of global vehicle platforms.

## More Dow smart science

In addition to the silicone rubber materials including: liquid silicone rubber, fluorosilicone rubber, high consistency rubber, fluoro liquid silicone rubber and cured-in-place gasketing featured in this selection guide, Dow also offers more smart science for vehicle system design innovation with our DOWSIL™ adhesives and sealants.

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