

## RC-GM Silicone Foam Material Datasheet

Product Code: RC02119-GM

### Key Compound Features

- Good spring force and low stress relaxation can reduce cost for gasket failure.
- Resistance to UV, ozone, extreme temperatures and flame enables the consistent performance.
- Tighten cell structure and special formulation provides good sealing performance to resist particles and rain.

### Applications

- Environmental sealing protect enclosures to against dust, moisture, air and liquid.
- Vibration isolators for components and vehicles.
- Cushion pad and gasket.

### Technical Specification

Properties	Test Method	RC-GM300	RC-GM400	RC-GM500	RC-GM600
Compound	-	Silicone			
Colour	-	Grey, Black			
Thickness	-	0.6mm - 12.7mm			
Density (Specific Gravity)	ASTM D 1056	350kg/cm <sup>3</sup>	400kg/cm <sup>3</sup>	500kg/cm <sup>3</sup>	550kg/cm <sup>3</sup>
Compression Force (25%)	ASTM D 1056	55 kPa	80 kPa	110 kPa	200 kPa
Compression Set (70°C)	ASTM D 1056	<1%			
Compression Set (100°C)	ASTM D 1056	<5%			
Tensile Strength	ASTM D 412	280 kPa	350 kPa	400 kPa	600 kPa
Elongation at Break	ASTM D 412	90%	80%	70%	90%
Flammability	UL94	V-0, HF-1			
Water Absorption	ASTM D 1056	5%			
Thermal Conductivity	JIS K6767 & ISO 8301	0.071 W/m·K	0.064 W/m·K	0.076 W/m·K	0.080 W/m·K
Dielectric Strength	ASTM D149-09	6.49 kV/mm	6.40 kV/mm	7.45 kV/mm	4.50 kV/mm
Volume Resistivity	ASTM D257	10 <sup>13</sup> Ω·cm	10 <sup>13</sup> Ω·cm	10 <sup>12</sup> Ω·cm	10 <sup>12</sup> Ω·cm
Operating Temperature Range	ASTM D257	-55°C to +200°C			

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.

### Material Standard Availability

Product	Colour	Material Thickness (mm)										
		0.60	0.80	1.00	1.60	2.39	3.18	4.78	6.35	9.53	12.7	14.0
RC-GM300	Black	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RC-GM400	Black	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RC-GM500	Black		✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* please contact us for custom thickness options

### Industry Specifications

Market	Specification	Items	RC-GM Series	RC-GM-400	RC-GK-260	RC-GK-300
Mass Transit	EN45545	R1, R7	HL-2			
		R10		HL-3		
		R22	HL-3		HL-3	HL-3
		R23	HL-3			
	BS6853	Table 1	Ia, Ib, II			
		Table 7, 8	II			
General	UL94			V-0, HF-1		

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