

RC-GK Silicone Foam Material Datasheet

Product Code: RC02119-GK

Key Compound Features

- Soft to the touch, allowing for higher rates of compression
- Resistance to UV, ozone, extreme temperatures and flame enables consistent performance.

Applications

- Gap fillers for battery cells
- Elastic pads for conductive and EMI shielding solutions
- Cushion pads with low force

Technical Specification

Properties	Test Method	RC-GK260	RC-GK300	RC-GK350
Compound	-	Silicone		
Colour	-	Grey, Black		
Thickness	-	*Standard thicknesses from 0.6mm - 12.7mm		
Density (Specific Gravity)	ASTM D 1056	250kg/cm ³	300kg/cm ³	350kg/cm ³
Compression Force (25%)	ASTM D 1056	10 kPa	20 kPa	30 kPa
Compression Set (70 °C)	ASTM D 1056	<1%		
Compression Set (100 °C)	ASTM D 1056	<5%		
Tensile Strength	ASTM D 412	120 kPa	150 kPa	200 kPa
Elongation at Break	ASTM D 412	60%	60%	50%
Flammability	UL94	V-0, HF-1		
Water Absorption	ASTM D 1056	5%		
Thermal Conductivity	JIS K6767 & ISO 8301	0.058 W/m·K	0.065 W/m·K	0.061 W/m·K
Dielectric Strength	ASTM D149-09	3.02 kV/mm	2.57 kV/mm	3.94 kV/mm
Volume Resistivity	ASTM D257	10 ¹³ Ω·cm		
Operating Temperature Range	ASTM D257	-55 °C to +200 °C		

* please contact us for custom thickness options

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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-GK260	Black		✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey							✓	✓	✓	✓	
RC-GK300	Black	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey		✓	✓	✓	✓	✓	✓	✓	✓	✓	
RC-GK350	Black	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Grey		✓	✓	✓	✓	✓	✓	✓	✓	✓	

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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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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 ³	400kg/cm ³	500kg/cm ³	550kg/cm ³
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 ¹³ Ω·cm	10 ¹³ Ω·cm	10 ¹² Ω·cm	10 ¹² Ω·cm
Operating Temperature Range	ASTM D257	-55°C to +200°C			

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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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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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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