

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

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-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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