



R10404 Thermally Conductive Silicone Sponge Rubber

R10404 is a thermally conductive closed cell silicone sponge rubber. This material offers thermal conductivity along with electrical isolation. R10404 is the superior choice for gasketing and cushioning applications requiring critical thermal transfer, sealing.

Features/Benefits

- Excellent conformability to irregular surfaces.
- Clean release from most materials.
- Repositionable
- Die cuttable
- Multiple thicknesses to fill various air gap heights
- Foam structure provides extremely compliant gap filler
- Cost effective thermal gap filler

Applications

- Electronic modules for power devices for power supplies
- Computers
- Telecommunication
- Automotive Electronics
- Electrical Insulation
- Military
- Medical
- Heat Pipe Assemblies
- CD Rom Cooling
- Vibration mounts
- Press pads
- Decal Transfer

Physical Properties

Property	Test Method	R10404
Color	Visual	Light Green
Thickness, nominal (inch)	ASTM D374	1/32", 1/16", 3/32", 1/8", 3/16", 1/4"
Thermal Conductivity (W/mK)	ASTM E1530	See chart below
Thermal Impedance (C sq. in./ W)	ASTM E1530	See chart below
Break Strength (psi)	ASTM D412	120
Elongation (%)	ASTM D412	150
Hardness (Shore A)	ASTM D2240	13

Dielectric Strength (volts/mil)	ASTM D149	100	
Compression Deflection (@25%psi)	ASTM D1056	20	
Compression Set	ASTM D1056	15	
Density (lbs./in. (3))	ASTM D297	0.040	
Operating Temperature (F)	N/A	-80 to 400	
UL Listing Recognition	UL94	V-1 down to 1/8" thick	
Compression (%)	Pressure (psi)	Thermal Conductivity (W/mK)	Thermal Impedance (C sq. in. /W)
Contact	<1	0.30	6.0
10	5	0.40	4.5
25	12	0.45	2.5
50	34	0.65	1.0

All properties are typical values and should not be used for writing specifications.

Availability

Available widths for **R10404**: 36"
 Available lengths for **R10404**: 5yd min.
 Available thicknesses for **R10404**: 1/32", 1/16", 3/32", 1/8", 3/16", 1/4"
 Available with silicone or acrylic adhesive.

Limited Warranty: For a period of 6months from the date of first sale, Innate of WI, Inc. warrants this product (s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product (s). Innotec of WI, Inc. DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

NOTE: Innotec of WI, Inc. does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product (s) or of any final product into which the product (s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform particular purpose desired in any given situation.

1220 Mound Avenue -Suite 140 – Racine, WI 53404 – (800) 776-7194 – (262) 637-7103 – Fax (262) 637-8205