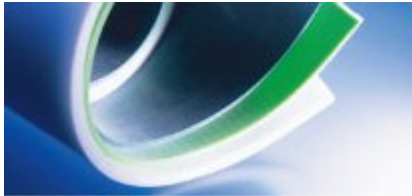




SILICONE GEL SHOCK FOAM



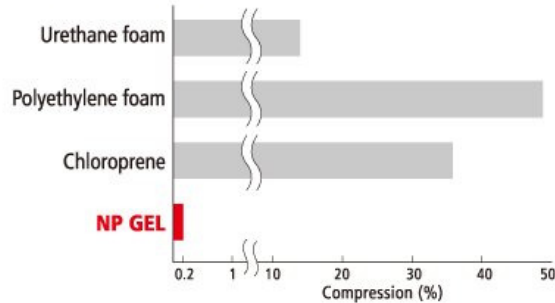
- Very High Shock Absorbing Gel.
- Highly Durable.
- Operate -40°C to 200°C.
- High Performance at 3mm Thick.
- Ozone & Chemically Resistant.

The gel's unique high damping silicone structure makes it ideal for vibration isolation and shock absorbing pads in high impact sports. Fine celled foam combined with very low compression set vs. other foams. Will not bottom out. Outstanding shock absorption is performed by dispersing impact three dimensionally due to its unique molecular structure. Designed to withstand extreme environments the gel characteristics remain the same over -40°C to 200°C. The material is also durable against ultra violet ozone and chemicals. Also see our shock electronics foam for shock protection.

Usable outside, weather and ozone resistant. Available in 3mm and 6mm sheet. No degradation up to 150c, unmodified after 2,000 hours testing by sunshine weather meter. Environmentally friendly, no HFC or carbon dioxide as foaming agent.

Material Properties

[NP GEL Compression Set]



※Measurement (JIS K 6401)

① Compress by 50% and maintain for 22 hours at 70°C.

② Release compression and measure after 30 minutes at normal temperature.

Sheet Size: Green Foam (mm) 3 x 450 x 2000

Sheet Size: White Foam (mm) 6 x 300 x 1000

Gelmecc UK

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SILICONE GEL SHOCK FOAM

Item / Unit	Silicone Foam	Remark
Appearance	Green or White	-
Specific Gravity	0.26	-
Tensile Strength	0.32	JIS K 6251
Elongation %	73	JIS K 6251
Young Modulus (kPa)	269.5	-
Specific Heat (j/g.K)	1.15	DSC
Thermal Conductivity (W/m.K)	0.06	-
Specific Volume Resistance Ratio (Ohms-cm)	3.8 * 10 ¹⁴	JIS K 6911
Dielectric Breakdown Strength (kV/mm)	3.8	JIS K 2110
Chemical Resistance	Toluene	X
	Acetone	X
	Methanol	O
	Distilled H ₂ O	O
	Fuel	X
	Lubricant	X
	NaCl (10%)	O
	HCl (10%)	O
NaOH	O	JIS K 6258 Room Temp x 168h
Normal Temperature Range (°C)	-40 to 200	-

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