Data Sheet — Nickel Plated Graphite Filled Silicone

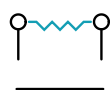| Data Sheet Type	Final
Material Reference	MR6370
Polymer	Silicone
Date Issued	16/07/24

Description

MR6370 is a premium nickel plated graphite filled silicone elastomer providing excellent EMI shielding performance. The material offers excellent corrosion resistance and flame retardant performance.

Specifications	Values	Test Methods
Compression Set	40 %	ASTM D395 Method B
Dimensional Stability	> 0.36mm	None
Elongation at Break	100 %	ASTM D412
Fire Performance	V0	UL94
Highest Recommended Working Temperature	150 °C	None
Low Temperature Flexibility	-45 °C	ASTM D1329
Shielding Effectiveness 10 GHz	95 db	CHO-TPO8
Shielding Effectiveness 100 MHz	100 db	CHO-TPO8
Shielding Effectiveness 2 GHz	95 db	CHO-TPO8
Shielding Effectiveness 500 MHz	100 db	CHO-TPO8
Shore Hardness (Shore A)	60 ° Shore	ASTM D2240
Specific Gravity	2.1 g/cm 3	ASTM D792
Tensile Strength	150 PSI	ASTM D412
Volume Resistivity	100 milli-ohms-cm	CEPS-0002

Purposes

Chemical Resistant

Conductive

Flame Retardent

Low Working Temperature

Weather Resistance

Important Notes about this Material Data Sheet

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice . All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.