



Marco Compound # S1055

40 Durometer, Clear, FDA and USP Class V / VI Compliant BioMedical Silicone

Technical Datasheet

Common Names:

Silicone, VQM

General Description:

Silicones are excellent seal materials for extreme temperature in static applications. Silicones can be synthesized with a wide variety of properties and compositions. Marco compound S1055 is specifically formulated for use in biomedical applications and implants. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- FDA 21CFR177.2600 Certified
- USP Class V / VI Certified
- RoHS Compliant
- ADIF (Animal Derived Ingredient Free)
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- Good chemical resistance
- Resistance to fungal and biological attack
- Flexible
- Good electrical insulation

Limitations:

- Not recommended for dynamic application
- Concentrated solvents, oils, concentrated acids, diluted sodium hydroxide.
- Poor abrasion resistance
- Low strength
- High gas permeability

Service Temperature:

-65 to 437° F (-54 to 225° C)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Typical Test Results
Hardness, Shore A	44
Color	Clear
Tensile Strength, psi	1210
Ultimate Elongation, %	833
Specific Gravity	1.12

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

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COMPRESSION SET	Test Results
Plied: 22 hrs. @ 350°F	34.9

USP Biological Reactivity Tests For Class VI	Test Results
30-Day Implant	PASS
Skin Sensitization	PASS
Cytotoxicity	PASS
Pyrogenicity	PASS
Hemolysis	PASS
Mutagenicity / Genotoxicity	PASS

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