



Marco Compound # S1146

70 Durometer, White, FDA, USP Class VI 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. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- Good chemical resistance. Resistance to fungal and biological attack
- Manufactured and packaged in a clean room

Limitations:

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

Service Temperature:

-75 to 480° F

Specification:

USA Pharmacopeia (USP), Class VI
 European Pharmacopeia (EP) (Ph. Eur.)
 EP – Substances soluble in Hexane
 FDA 21 CFR177.2600

TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	Units	Typical Test Results
Material Hardness	Shore A	70
Color		White
Tensile Strength	psi	1,010
Ultimate Elongation	%	280
Compression Set, Method B; 24 hrs @70° C (158° F)		20
Low Temperature Resistance; Non-brittle after 3 minutes at -60° C	°C	-60

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.