

## Marco Compound # V1166

### Low temperature 70 durometer FKM

### Technical Datasheet

#### General Description:

Our V1166 low temperature Terpolymer FKM compound has been specifically designed for use in challenging low temperature applications. This material is highly versatile and has a wide range of chemical compatibility. V1166 offers the same chemical and mechanical properties as B-type and G-type FKM grades.

#### Features:

- Excellent resistance to acids, fuels, mineral oils, greases, aliphatic, aromatic and chlorinated hydrocarbons, non-flammable hydraulic fluids (HFD) and many organic solvents and chemicals.
- Low compression set

#### Applications:

- Low temperature applications
- Mechanical seals
- Valves and pumps
- Flow meters and sensors



#### Service Temperature:

-65 to 437°F (-54 to 225°C)

### TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM	Typical Test Results
Color		Black
Hardness, Shore A	D1415	72
Tensile Strength, MPa (psi)	D412	13.0 (1,875)
Ultimate Elongation, %		180
Compression Set, 22 hrs @392° F @25% deflection, % of original deflection	D395B	19
Glass Transition (Tg)	D1329	-40° C
<b>Heat Ageing: 72 hrs. @ 482° F</b>	D573	
Hardness Change (points)	D1415	-7
Tensile strength change	D412	-30%
Elongation at break change	D412	+30%

Date: 2016-10-3

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.