Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
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Marco Compound # L1006

75 Durometer, Black, General Use Aflas®

Technical Datasheet

General Description:

Compound L1006 exhibit excellent chemical, heat and steam resistance. They provide superior performance in water, steam and virtually all caustics making them ideal for pharmaceutical and biotechnology manufacturers that use steam and caustic chemicals in the sterilization process. L1006 provides excellent performance in SIP (steam in place), CIP (clean in place) and WFI (water for injection) applications. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

Features:

- Excellent steam and caustic resistance up to 400° F (204° C)
- Very good chemical resistance
- Low TOCs and metal extractables
- Resistant to highly reactive organic and inorganic chemicals
- Excellent volume resistivity (greater than $10^{16}\Omega$ cm)
- Radiation resistance up to 200 MRad of gamma-ray radiation
- Unaffected by extended exposure to 200 °C steam
- Continuous use at 230 °C
- Resistant to highly reactive organic and inorganic chemicals

Limitations:

- Aromatic Fuels
- Ketones
- Carbon tetrachloride
- Chlorinated Hydrocarbons
- Organic Refrigerants

Service Temperature:

15 to 450° F

Specification:

ASTM D2000 M2HK810 A1-10 B38

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TYPICAL PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Reports
Hardness, Shore A, ASTM D2240 (Z1=75+/-5)	75 +/- 5	79
Color	Black	Black
Tensile Strength, psi, ASTM D412	1,450	2,200
Ultimate Elongation, %, ASTM D412	150	200
Specific Gravity	Report	1.73
Modulus at 100%		1,100
Tear Resistance, Kg-cm		31

HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 482°F)	**ASTM D2000 Requirements**	**Typical Test Reports**
Hardness Change, points	+10	0
Tensile Strength Change, %	- 25	-2
Ultimate Elongation Change, %, max.	-25	-13
Volume Change, %	+/-5	-1.2

COMPRESION SET -	**ASTM D2000 Requirements**	**Typical Test Reports**
22 hours @ 392° F	50% max.	24%