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Marco Compound # N1002 70 Durometer, Black, Specialty Neoprene Technical Datasheet

Common Names:

Neoprene, Chloroprene, CR

General Description:

Neoprene was the first synthetic rubber developed commercially and exhibits generally good ozone, aging and chemical resistance. Neoprene rubbers contain Chlorine in the polymer to reduce the reactivity to many oxidizing agents, as well as to oil and flame. Neoprenes have good abrasion and tear resistance and are suitable for use in heating and air conditioning systems (HVAC), refrigeration units and numerous dynamic applications. N1002 is formulated to provide value with balance cost and performance. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Compatible with Freon R22, R123, R500 & R502
- Low cost
- Paraffin base mineral oil with low DPI, e.g. ASTM oil No. 1
- Silicone oil and grease
- Water and water solvents at low temperatures
- Refrigerants
- Ammonia
- Carbon dioxide
- Improved ozone, weathering and aging resistance compared with nitrile rubber.

Limitations:

- Aromatic hydrocarbons (benzene)
- Chlorinated hydrocarbons (trichloroethylene)
- Polar solvents (ketones, esters, ethers, acetones).

Service Temperature:

-40 to 250° F

Specification:

ASTM D2000 M3BC707 A14 EO14

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	67
Color	Black	Black
Tensile Strength, psi	1,015 min.	2,000
Ultimate Elongation, %	200 min.	220

Information within is believed to be accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts supplied in this material will perform satisfactorily in specific applications. It's the customer's responsibility to evaluate prior to use.

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HEAT RESISTANCE – A14, ASTM D 573 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points	+ 15	+13
Tensile Strength Change, %	- 15	+9
Ultimate Elongation Change, %	-40 max.	-33

COMPRESSION SET – B14, ASTM D 325 Method B (22 hrs. @ 100°C)	ASTM D2000	Typical Test
	Requirements	Results
Permanent Set %	80 max.	36

FLUID RESISTANCE – IRM 903 Oil, -EO34, ASTM D 471 (70 hrs. @ 100°C)	ASTM D2000	Typical Test Results
	Requirements	Results
Tensile Strength Change, %	-60 max.	+7
Ultimate Elongation Change, %	-50 max.	-22
Volume Change, %	+100 max.	+19