Request a Quote

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Marco Compound # P1009

70 Durometer, Yellow to Golden Bronze, General Use Polyurethane
Technical Datasheet

Common Names:
Polyurethane (AU, EU)

General description:
Polyurethane is a widely used compound due to its superior strength, tear and abrasion resistance. Polyurethane also provides excellent permeation resistance. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Good hydraulic oil and gasoline resistance
- Resistant to pure aliphatic hydrocarbons (propane, butane, fuel)
- Resistance to mineral and silicone oils and greases
- Resistant to water, oxygen, ozone and aging
- Excellent tear and abrasion resistance

Limitations:

- Not compatible with acids, ketones, esters, ethers, alcohols, glycols
- Hot water, steam, alkalis and amines

Service Temperature:
-30 to 180° F (-34 to 82° C)

Specification
ASTM D2000 M2BG714 A14 B14 EO14 EO34

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color		Yellow to golden bronze
Tensile Strength, MPa, (psi)	14.0 (2,030)	21.4 (3,100)
Ultimate Elongation, %	250 min.	530
Specific Gravity		1.343

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HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 100°C)	Specification Requirements	Typical Test Results
Hardness Change, points	+/-15 max.	+5
Tensile Strength Change, %	+/-30 max.	+8
Ultimate Elongation Change, %	-50 max.	-9

COMPRESSION SET – ASTM D 395 Method B (22 hrs. @ 100°C)	Specification Requirements	Typical Test Results
Permanent Set, %	25 max.	13

OIL RESISTANCE –ASTM # 1 Oil – ASTM D 471 (70 hrs. @ 100° C)	Specification Requirements	Typical Test Results
Hardness Change, points	-5 to +10	0
Tensile Strength Change, %	-25 max.	-19
Ultimate Elongation Change, %	-45 max.	-5
Volume Change, %	-10 to +5	-3

OIL RESISTANCE –ASTM # 3 Oil – ASTM D 471 (70 hrs. @ 100° C)	Specification Requirements	Typical Test Results
Hardness Change, points	-10 to +5	-4
Tensile Strength Change, %	-45 max.	-40
Ultimate Elongation Change, %	-45 max.	-21
Volume Change, %	0 to +25	+12