Request a Quote

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Marco Compound # P1002
70 Durometer, Black, 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:
-65 to 225° F

Specification
ASTM D2000

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Black	Black
Tensile Strength, psi	2450 min.	3500
Ultimate Elongation, %	300 min.	330

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HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 212°F)	Specification Requirements	Typical Test Results
Hardness Change, points	+/-5 max.	+2
Tensile Strength Change, %	+15 max.	+6
Ultimate Elongation Change, %	-15 max.	-4

COMPRESSION SET – ASTM D 395 Method B (70 hrs. @ 212°F)	Specification Requirements	Typical Test Results
Permanent Set, %	45 max.	33

OIL RESISTANCE –ASTM # 1 Oil – ASTM D 471 (70 hrs. @ 212° F)	Specification Requirements	Typical Test Results
Hardness Change, points	-5 to +10	-1
Tensile Strength Change, %	-25 max.	+2
Ultimate Elongation Change, %	-45 max.	-4
Volume Change, %	-10 to +5	-3

OIL RESISTANCE –ASTM # 3 Oil – ASTM D 471 (70 hrs. @ 212° F)	Specification Requirements	Typical Test Results
Hardness Change, points	-10 to +5	-1
Tensile Strength Change, %	-45 max.	-9
Ultimate Elongation Change, %	-45 max.	+1
Volume Change, %	0 to +25	+5