Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
www.marcorubber.com

# Marco Compound # P1007

## 90 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 M6BG910 A14 B14 EO14 EO34

## PHYSICAL PROPERTY STANDARDS

| ORIGINAL PROPERTIES | Specification Requirements | Typical Test Results |
|---|---|---|
| Hardness, Shore A | 90 +/- 5 | 92 |
| Color | | Yellow to golden bronze |
| Tensile Strength, MPa, (psi) | 10 (1,440) | 15.4 (2,220) |
| Ultimate Elongation, % | 100 min. | 120 |
| Specific Gravity | | 1.219 |

Request a Quote

| HEAT RESISTANCE – ASTM D 573 (70 hrs. @ 100°C) | Specification Requirements | Typical Test Results |
|---|---|---|
| Hardness Change, points | +15 max. | +1 |
| Tensile Strength Change, % | -20 max. | -2 |
| Ultimate Elongation Change, % | -40 max. | -11 |

| COMPRESSION SET – ASTM D 395 Method B (22 hrs. @ 100°C) | Specification Requirements | Typical Test Results |
|---|---|---|
| Permanent Set, % | 25 max. | 20 |

| OIL RESISTANCE –ASTM # 1 Oil – ASTM D 471 (70 hrs. @ 100° C) | Specification Requirements | Typical Test Results |
|---|---|---|
| Hardness Change, points | -5 to +15 | -4 |
| Tensile Strength Change, % | -25 max. | -17 |
| Ultimate Elongation Change, % | -45 max. | -37 |
| Volume Change, % | -10 to +5 | +1.9 |

| OIL RESISTANCE –ASTM # 3 Oil – ASTM D 471 (70 hrs. @ 100° C) | Specification Requirements | Typical Test Results |
|---|---|---|
| Hardness Change, points | 0 to -15 | -10 |
| Tensile Strength Change, % | -45 max. | -35 |
| Ultimate Elongation Change, % | -45 max. | -44 |
| Volume Change, % | 0 to +35 | +25 |