



## Marco Compound # P1006

### 70 Durometer, General Use Polyurethane

### Technical Datasheet

#### **Common Names:**

Polyurethane (AU, EU)

#### **General description:**

Polyurethane is a widely used material due to its excellent mechanical properties including high tensile strength and great tear, abrasion, and permeation resistance. Marco compound P1006 is a general purpose millable gum Polyether type Polyurethane. Please contact [engineering@marcorubber.com](mailto: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 M3BG714 A14 B14 EO14 EO34

### PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	70
Color	Translucent-Yellow	Translucent-Yellow
Tensile Strength, psi	14.8 (2031) min.	18.27 (2,650)
Ultimate Elongation, %	250 min.	437
Specific Gravity	Report	1.15

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.

<b>COMPRESSION SET – ASTM D 395 Method B (22 hrs. @ 100°C)</b>	<b>Specification Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %	50 max.	45

<b>WATER RESISTANCE - ASTM D 471 (70 hrs. @ 100°C)</b>	<b>Specification Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points	+10	-6
Tensile Strength Change, %		-28
Ultimate Elongation Change, %		-15
Volume Change, %	+/-15	+5

<b>OIL RESISTANCE –ASTM # 1 Oil – ASTM D 471 (70 hrs. @ 100°C)</b>	<b>Specification Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points	-7 to +5	-4
Tensile Strength Change, %	-20 max.	-7
Ultimate Elongation Change, %	-40 max.	-9
Volume Change, %	-5 to +10	+6

<b>OIL RESISTANCE – IRM # 903 Oil, - ASTM D 471 (70 hrs. @ 100°C)</b>	<b>Specification Requirements</b>	<b>Typical Test Results</b>
Hardness Change, points		-30
Tensile Strength Change, %		-45
Ultimate Elongation Change, %		-33
Volume Change, %		+57

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