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# Marco Compound # P1014 80 Durometer, Static Dissipative 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:

- Static Dissipative
- 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

#### Temperature Range

-30 to 225° F

## TYPICAL PHYSICAL PROPERTY

ORIGINAL PROPERTIES	Method Parameters	Typical Test Results
Hardness, Shore A	D2240	80 +/- 5
Tensile Strength, psi	D412	6,000
Ultimate Elongation, %	D412	625
Compression Modulus, at 10% Deflection, psi	D575	220
Compression set at 25% deflection, psi (22 hrs @158°F)	D395 B	28
Tg, Glass transition, °C	Dupont TMA	-28

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>TYPICAL ELECTRICAL P</b>	ROPERTIES
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ORIGINAL PROPERTIES	Method	Typical Test Results
	Parameters	
DC Resistivity, Volume resistivity	23°C, 50% RH, Ohm-cm	1.5 x 10 <sup>10</sup>
Surface Resistivity	23°C, 50% RH, Ohm-cm	1.8 x 10 <sup>12</sup>
Dielectric Constant	23°C, 50% RH, Ohm-cm	
	Frequency 60 Hz	9.53
	10 <sup>3</sup> Hz	8.51
	10º Hz	6.87
Dissipation Factor	23°C, 50% RH, Ohm-cm	
	Frequency 60 Hz	0.230
	10 <sup>3</sup> Hz	0.054
	10 <sup>6</sup> Hz	.082
Dielectric Strength	Electrodes 1 in part 23°C oil temperature	
	500 vps rate of rise.	
	Volts/mil	310

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