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## O-Ring Compound U70 Data Sheet

Polyurethane Rubber  
70 Durometer, Transparent

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### **General Information:**

Polyurethane has excellent wear resistance, high tensile strength and high elasticity in comparison with any other elastomers.

**Cure System:** Peroxide-cured

**Temperature Range:** -40°C (-40°F) to 80°C (176°F)

### **Attributes:**

- Color: Transparent
- 70±5 Shore A Hardness
- Shelf-life: Unlimited

### Performs Well In:

- Aliphatic hydrocarbon
- Mineral oil and grease
- Silicone oil and grease
- Ozone
- Water up to 50°C (122°F) EU type

### Doesn't Perform Well In:

- Ketones
- Alcohols
- Esters
- Ethers
- Hot water and steam
- Alkalis, amines
- Acids
- Glycols

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## TEST REPORT FOR O-RING COMPOUND U70

MATERIAL: POLYURETHANE RUBBER

DUROMETER: 70

COLOR: TRANSPARENT

ASTM\* D2000 M3BG714 B14 EA14 EO14 Z1 Z2

SECTION OF SPEC.	PROPERTIES	REQUIREMENTS	RESULTS	ASTM TEST METHOD
	<b>ORIGINAL PHYSICAL PROPERTIES</b>			
	Hardness, Shore A	70±5	69	D2240-05
	Tensile Strength, psi (MPa)	2031 (min.)	2922 (20.15)	D412-06a
	Elongation, percent	250 (min.)	458	D412-06a
	Modulus at 100%, psi (MPa)		310 (2.14)	D412-06a
	Specific Gravity (g/cm <sup>3</sup> )		1.147	
B14	<b>COMPRESSION SET</b>			D395-03,
	<b>22 hours at 100°C (212°F), percent</b>	50 (button) (max.)	45.6	Method B
EA14	<b>WATER RESISTANCE</b>			D471-06
	<b>70 hours at 100°C (212°F)</b>			
	Hardness Change, points	±10	-5	
	Tensile Strength Change, percent		-27	
	Elongation Change, percent		-16	
	Volume Change, percent	±15	+5	
EO14	<b>NO. 1 OIL RESISTANCE</b>			D471-06
	<b>70 hours at 100°C (212°F)</b>			
	Hardness Change, points	-7 to +5	-4	
	Tensile Strength Change, percent	-20 (max.)	-6	
	Elongation Change, percent	-40 (max.)	-8	
	Volume Change, percent	-5 to +10	+6.4	
Z2	<b>NO. 3 OIL RESISTANCE</b>			D471-06
	<b>70 hours at 100°C (212°F)</b>			
	Hardness Change, points		-30	
	Tensile Strength Change, percent		-46	
	Elongation Change, percent		-32	
	Volume Change, percent		+56.1	

\*American Society for Testing and Materials

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