

# The O-Ring Store LLC



We make getting o-rings easy!

## **URETHANE CAST 70 DUROMETER DATA SHEET FOR COMPOUND UC70**

### **Compound Features:**

- Excellent wear and abrasion resistance.
- Excellent tear resistance.
- Excellent wear resistance.
- Excellent short term resilience.
- Excellent low temperature flexibility.
- Good resistance to water. (UC70 & UC90 only)
- Good elongation resistance.
- Good ozone, weathering, and UV resistance.

### **Compound Limitations:**

- Poor compression set resistance.
- Poor resistance to acids.
- Poor resistance to chlorinated hydrocarbons.
- Poor resistance to brake fluids.
- Poor resistance to keytones (MEK).

### **Curing System:**

TODI

### **Temperature Range:**

-81 to 121°C (-115 to 250°F)

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ORIGINAL PROPERTIES				
Properties	ASTM Designation	Test Method	Unit of Measure	UC70 Compound Property
Durometer	-	D2240	Shore A	68
Color		-	-	Natural/Translucent
Tensile Strength		D412	PSI (Mpa)	5,000 (34.5)
Ultimate Elongation		D412	%	455
Specific Gravity		-	g/cm <sup>3</sup>	1.155
Bayshore Resilience		D2632	%	51
Tear Strength		Pli Die C	PSI (Mpa)	660 (4.55)
Abrasion Loss (mm <sup>3</sup> )		D2632	%	25

COMPRESSION SET – 25% DEFLECTION – 70 HOURS @ 158°F (70°C)				
Properties	ASTM Designation	Test Method	Unit of Measure	UC70 Compound Property
Deflection	-	D395B	%	9

MODULUS				
Properties	ASTM Designation	Test Method	Unit of Measure	UC70 Compound Property
100% Elongation	-	D412	PSI	750
300% Elongation	-	D412	PSI	1,700

Information within is believed to be accurate and reliable. However, The O-Ring Store, LLC 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 the material prior to use.

**1847 Wilma DR - Clarkston, WA 99403 | Phone (208) 413-6377 Fax (208) 413-6719**