

Material Datasheet

Compound #: U70-B001

Polyurethane Rubber, Clear, Oil/Fuel Resistance

Material Summary		
Material Type:	Urethane (EU)	
Durometer:	70	
Color:	Transparent	
Special Properties:	Oil/Fuel Resistance	
Recommended Temperature Range (Static):	-40°C (-40°F) to 80°C (176°F)	
Cure System:	Peroxide	
Meets Specification:	ASTM D2000 M3BG714 B14 EA14 EO14 Z1 Z2	
Original Properties	Requirements	Typical Results
Hardness, (Shore A) (ASTM D2240-15 ^{e1})	70±5	71
Tensile Strength, psi(MPa) (ASTM D412-16)	2031(min)	2873(19.81)
Elongation, (%) (ASTM D412-16)	250(min)	459
Modulus at 100%, psi(MPa) (ASTM D412-16)	-	415(2.86)
Density, (Mg/m ³) (CNS 5341-96, Method A)	-	1.16
(A14) Heat Age, 70 Hrs @ 100 °C (ASTM D573-04)		
Hardness Change, pts.	±15	-5
Tensile Strength Change, %	±30	-18
Elongation Change, %	-50(max)	-18
Weight Change, %	-	0
(B14) Compression set, 22 Hrs @ 100 °C (ASTM D395-18, Method B)		
-	50%(button)(max)	37.2
(EA14) Water Resistance, 70 Hrs @ 100 °C (ASTM D471-16a)		
Hardness Change, pts.	±10	-4
Tensile Strength Change, %	-	-20
Elongation Change, %	-	-12
Volume Change, %	±15	+9.33
(EO14) IRM 901 Oil, 70 Hrs @ 100 °C (ASTM D471-16a)		
Hardness Change, pts.	-7~+5	-6
Tensile Strength Change, %	-20(max)	-19
Elongation Change, %	-40(max)	-10
Volume Change, %	-5~+10	+6.8

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(F17) Low-Temperature Brittleness Point Test, 3(minute) at -40°C (ASTM D2137-11, Method C)

Sample type: T-50,	-	-
Coolant : Isopropyl alcohol,	-	-
Low Temperature Property	no crack	pass

Compound Previously Known As: U70401

Report Date: 7/29/2019

Information within this report is believed to be accurate and reliable. However, Global O-Ring and Seal 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.