TSE Industries, Inc.
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Formula ID	708	Compound No.	XP-3439-B	Cure:	P
		Color:	NB	Type:	Polyether

Application: 78 Shore A Clear Millathane® 97 Diaphragm Compound

Millathane® 97	100.00	Durometer, Shore A	78	
Stearic Acid	0.50	Durometer, Shore D		
Wacker HDK-N20 fumed silica	20.00	100% Modulus, psi	455	3.1 MPa
SR 231	16.00	200% Modulus, psi	850	5.9 MPa
Irganox 1010	0.25	300% Modulus, psi	1440	9.9 MPa
DiCup R	0.50	Tensile Strength, psi	2770	19.1 MPa
		Elongation,%	430	
		Tear Die C, lb/sq. in.	189	33.1 kN/m
		Specific Gravity, g/cc	1.111	
		CureTime, minutes	11	
		Cure Temp°F	320	160 °C
		Mooney Viscosity, ML4/100°C		
		Bashore Resilience, %	46	
		Brittle Point, °C		
Total	137.25	Compression Set 22h/70°C, %	34	
		Compression Set 70h/70°C, %		
		Compression Set 22h/100°C, %		
		Compression Set 70h/100°C, %		
		Compression Set 22h/125°C, %		
		Compression Set 22h/150°C, %		

Surface Resistivity, ohm/cm²	
Volume Resistivity, ohm-cm	
DIN Abrasion, mm³ loss	72
UL 94 Rating:	

Compression Set - Other Conditions:

Hrs	ºC	%Set

Heat Aging	Hrs at	°C
Hardness Change, pts.		
Tensile Change, %		
Elongation Change, %		

Fluid Aging	Hrs at	°C
Hardness Change, pts.		
Tensile Change, %		
Elongation Change, %		
Volume Change, %		

Other Tests and Info: Measured specific gravity was 1.081; lower than calculated presumably because of some silica loss during mixing

3/23/2005

The recommendations for the use of our products are based on tests believed to be reliable. However, we do not guarantee the results to be obtained by others under different conditions. Nothing in this literature is intended as a recommendation to use our products so as to infringe on any patent. Millathane, Thanecure and Crystal are registered trademarks of TSE Industries, Inc.