



Formula ID 708 Compound XP-3439-B Cure: P Color: NB
Urethane 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	Durometer, Asker C		
SR 231 (DEGDMA)	16.00	25% Modulus, psi		MPa
Irganox 1010	0.25	50% Modulus, psi		MPa
DiCup R	0.50	100% Modulus, psi	455	3.1 MPa
		200% Modulus, psi	850	5.9 MPa
		300% Modulus, psi	1440	9.9 MPa
		Tensile Strength, psi	2770	19.1 MPa
		Elongation, %	430	
		Tear Die C, lb/in.	189	33.1 kN/m
		Tear Die B, lb/in.		kN/m
		Tear Die T, lb/in.		kN/m
		Specific Gravity, g/cc	1.111	
		CureTime, minutes	11	
		Cure Temp°F	320	160 °C
		Mooney Viscosity, ML4/100°C		
	Total	137.25		
		Heat Aging	<input type="text"/> Hrs at <input type="text"/> °C	
Brittle Point, °C		Hardness Change, pts.		
TR10, °C (ASTM D1329)		Tensile Change, %		
Bashore Resilience, %	46	Elongation Change, %		
DIN Abrasion, mm ³ loss	72	Fluid Aging	<input type="text"/> Hrs at <input type="text"/> °C	
		Hardness Change, pts.		
Compression Set 22h/70°C, %	34	Tensile Change, %		
Compression Set 70h/70°C, %		Elongation Change, %		
Compression Set 22h/100°C, %		Volume Change, %		
Compression Set 70h/100°C, %		Surface Resistivity, ohm/cm ²		
Compression Set 22h/125°C, %		Volume Resistivity, ohm-cm		
Compression Set 22h/150°C, %		UL 94 Rating:		
Compression Set, Other conditions:	<input type="text"/> h/ <input type="text"/> °C, % <input type="text"/>			

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

10/1/2020

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