TSE Industries, Inc.
4370 112th Terrace North
Clearwater, FL 33762 (USA)
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Formula ID	1027	Compound No.	XP-5104-A	Cure:	P
		Color:	NB	Type:	Polyether

Application: 85 Shore A Transparent Millathane® E40 Diaphragm - Peroxide cured

Millathane® E40	100.00
Stearic Acid	0.50
Wacker HDK-N20 fumed silica	20.00
SR 231	16.00
Irganox 1010	0.25
DiCup R	0.50
Total	137.25

Durometer, Shore A	85	
Durometer, Shore D		
100% Modulus, psi	785	5.4 MPa
200% Modulus, psi	1410	9.7 MPa
300% Modulus, psi		MPa
Tensile Strength, psi	2290	15.8 MPa
Elongation,%	290	
Tear Die C, lb/in.	255	44.6 kN/m
Tear Die B, lb/in.		kN/m
Specific Gravity, g/cc	1.140	
CureTime, minutes	6	
Cure Temp°F	320	160 °C
Mooney Viscosity, ML4/100°C	28	
Bashore Resilience, %		
DIN Abrasion, mm³ loss		
Compression Set 22h/70°C, %		
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, %		

Brittle Point, °C	
TR10, °C (ASTM D1329)	
Surface Resistivity, ohm/cm²	
Volume Resistivity, ohm-cm	
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: Compound is honey-colored, but transparent.

5/11/2009

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