TSE Industries, Inc.
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Formula ID 1668 Compound XP-6134-A Cure: P Color: B

Urethane Type: Polyester

Application: 63 Shore A Millathane® 66 Diaphragm-ASTM D2000 M*BG628A14B14EO34

Millathane® 66 Premilled	101.50
Stearic Acid	0.20
N550 Black	15.00
N330 Black	5.00
SR 231 (DEGDMA)	2.00
Struktol WB-222	1.00
Millstab(tm) P	0.50
DiCup 40C	6.00
Total	131.20

Brittle Point, °C	
TR10, °C (ASTM D1329)	
Bashore Resilience, %	56
DIN Abrasion, mm³ loss	80
Compression Set 22h/70°C, %	7
Compression Set 70h/70°C, %	
Compression Set 22h/100°C, %	10
Compression Set 70h/100°C, %	
Compression Set 22h/125°C, %	
Compression Set 22h/150°C, %	
Compression Set, Other conditions: h/ ºC,%	

Durometer, Shore A	63	
Durometer, Shore D		
25% Modulus, psi		MPa
50% Modulus, psi		MPa
100% Modulus, psi	315	2.2 MPa
200% Modulus, psi	695	4.8 MPa
300% Modulus, psi	1470	10.1 MPa
Tensile Strength, psi	4810	33.2 MPa
Elongation,%	575	
Tear Die C, lb/in.	192	33.6 kN/m
Tear Die B, lb/in.	331	57.9 kN/m
Specific Gravity, g/cc	1.260	
CureTime, minutes	14	
Cure Temp°F	320	160 °C
Mooney Viscosity, ML4/100°C	48	

Heat Aging 70 Hrs at 100 °C

Hardness Change, pts.	3
Tensile Change, %	-7
Elongation Change, %	-4

Fluid Aging Oil, IRM 903

70 Hrs at 100 °C

Hardness Change, pts.	-4
Tensile Change, %	-14
Elongation Change, %	-7
Volume Change, %	3.1

Surface Resistivity, ohm/cm²	
Volume Resistivity, ohm-cm	
UL 94 Rating:	

Other Tests and Info: MDR at 160ºD: t90=13.6 min. *Compound meets the requirements of ASTM D2000 M2, M3, M4, M5, M6, and M7 BG628 A14 B14 EO34 (except Grade 3 EO34 spec; requires volume change of +16 to +35%). This compound would very probably also meet C12, EO14, F16 and F17 requirements. Millstab P is equivalent to Stabaxol P.

3/24/2010

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