TSE INDUSTRIES, INC.
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Formula ID 570 Compound V4691B Cure: P Color: NB

Urethane Type: Polyester

Application: 58 Shore A, White, Millathane® 5004 Compound ASTM D2000 M4BG628A14B14

Millathane® 5004**	100.00
Stearic Acid	0.25
Hi-Sil 233	10.00
Paraplex G-50	5.00
DiCup 40C	4.00
Total	119.25

Durometer, Shore A	58	
Durometer, Shore D		
Durometer, Asker C		
25% Modulus, psi		MPa
50% Modulus, psi		MPa
100% Modulus, psi	270	1.9 MPa
200% Modulus, psi		MPa
300% Modulus, psi		MPa
Tensile Strength, psi	4160	28.7 MPa
Elongation,%	550	
Tear Die C, lb/in.		kN/m
Tear Die B, lb/in.		kN/m
Tear Die T, lb/in.		kN/m
Specific Gravity, g/cc		
CureTime, minutes	20	
Cure Temp°F	320	160 °C
Mooney Viscosity, ML4/100°C		

Brittle Point, °C	
TR10, °C (ASTM D1329)	
Bashore Resilience, %	
DIN Abrasion, mm³ loss	

Heat Aging 70 Hrs at 100 °C

Hardness Change, pts.	1
Tensile Change, %	2
Elongation Change, %	-1

Fluid Aging Oil, IRM 903

70 Hrs at 121 °C

Hardness Change, pts.	-11
Tensile Change, %	-46
Elongation Change, %	9
Volume Change, %	1.0

Compression Set 22h/70°C, %	
Compression Set 70h/70°C, %	
Compression Set 22h/100°C, %	
Compression Set 70h/100°C, %	46
Compression Set 22h/125°C, %	
Compression Set 22h/150°C, %	
Compression Set, Other conditions: h/ °C,%	

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

Other Tests and Info: Fuel B aging 7 days/RT (22C): H: -4, TS: -43%, E: -13%, V: +15. **For better hydrolysis resistance, 1-3 parts of hydrolysis statilizer (e.g., Millstab P) should be added, or Millathane 5004 Premilled (which contains 1.5 phr of Millstab P) should be used.

10/1/2020