



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	Durometer, Shore A	58	
Stearic Acid	0.25	Durometer, Shore D		
Hi-Sil 233	10.00	Durometer, Asker C		
Paraplex G-50	5.00	25% Modulus, psi		MPa
DiCup 40C	4.00	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		
		<b>Heat Aging</b> <input type="text" value="70"/> Hrs at <input type="text" value="100"/> °C		
		Hardness Change, pts.	1	
		Tensile Change, %	2	
		Elongation Change, %	-1	
		<b>Fluid Aging</b> Oil, IRM 903		
		<input type="text" value="70"/> Hrs at <input type="text" value="121"/> °C		
		Hardness Change, pts.	-11	
		Tensile Change, %	-46	
		Elongation Change, %	9	
		Volume Change, %	1.0	
		Surface Resistivity, ohm/cm <sup>2</sup>		
		Volume Resistivity, ohm-cm		
		UL 94 Rating:		
		<b>Total</b>	119.25	
Brittle Point, °C				
TR10, °C (ASTM D1329)				
Bashore Resilience, %				
DIN Abrasion, mm <sup>3</sup> loss				
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:				
	<input type="text" value=""/> h/ <input type="text" value=""/> °C, %			

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

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