



TSE Industries, Inc.

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Formula ID 2222 Compound XP-7561-C Cure: P Color: NB
Urethane Type: Polyether

Application: 65 Shore A Transparent Millathane® 97 Footwear Compound

Millathane® 97	100.00	Durometer, Shore A	65	
Stearic Acid	0.20	Durometer, Shore D		
Wacker HDK-N20 fumed silica	20.00	Durometer, Asker C		
Silquest A-172	0.40	25% Modulus, psi		MPa
Songnox 1010	0.30	50% Modulus, psi		MPa
Songsorb 3280	0.30	100% Modulus, psi	230	1.6 MPa
Tinuvin 765	0.30	200% Modulus, psi	345	2.4 MPa
SR 231 (DEGDMA)	3.00	300% Modulus, psi	570	3.9 MPa
Luperox 231	0.60	Tensile Strength, psi	3670	25.3 MPa
		Elongation,%	655	
		Tear Die C, lb/in.	195	34.1 kN/m
		Tear Die B, lb/in.	330	57.8 kN/m
		Tear Die T, lb/in.		kN/m
		Specific Gravity, g/cc	1.105	
		CureTime, minutes	3	
		Cure Temp°F	302	150 °C
		Mooney Viscosity, ML4/100°C		
		Heat Aging 3840 Hrs at 40 °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Fluid Aging		
		Hrs at °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Volume Change, %		
		Surface Resistivity, ohm/cm ²		
		Volume Resistivity, ohm-cm		
		UL 94 Rating:		
	Total 125.10			
Brittle Point, °C				
TR10, °C (ASTM D1329)				
Bashore Resilience, %				
DIN Abrasion, mm ³ loss	70			
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, %				
Compression Set, Other conditions:				
	h/ °C,%			

Other Tests and Info: Heat aging is UVCON accelerated UV test, 40°C and UVA-340 bulbs continuous exposure; no crazing or cracking after 3840 hours (160 days) and only slight yellowing. For better yellowing resistance after humidity exposure, replace Songnox 1010/Songsorb 3280/Tinuvin 765 with Songnox 2450/Sabostab UV62/Sabostab UV312

8/10/2016

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