TSE Industries, Inc.
4370 112th Terrace North
Clearwater, FL 33762 (USA)
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Formula ID 1763 Compound XP-5752-G Cure: P Color: NB

Urethane Type: Polyether

Application: 47 Shore A Transparent Millathane® 97 Molding Compound

Millathane® 97-60	100.00
Stearic Acid	0.25
Wacker HDK-N20 fumed silica	15.00
Silquest A-172*	0.30
Kettlitz Mediaplast NB-4	15.00
Irganox 1010	0.25
Tinuvin 328	0.25
Tinuvin 765	0.25
SR 231 (DEGDMA)	4.00
Luperox 231	0.60
Total	135.90

Durometer, Shore A	47		
Durometer, Shore D			
Durometer, Asker C			
25% Modulus, psi			MPa
50% Modulus, psi			MPa
100% Modulus, psi	160	1.1	MPa
200% Modulus, psi	235	1.6	MPa
300% Modulus, psi	385	2.7	MPa
Tensile Strength, psi	2430	16.8	MPa
Elongation,%	675		
Tear Die C, lb/in.	120	21.0	kN/m
Tear Die B, lb/in.	175	30.6	kN/m
Tear Die T, lb/in.			kN/m
Specific Gravity, g/cc	1.060		
CureTime, minutes	3		
Cure Temp°F	302	150	°C
Mooney Viscosity, ML4/100°C	54		

Brittle Point, °C	
TR10, °C (ASTM D1329)	
Bashore Resilience, %	57
DIN Abrasion, mm³ loss	63

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, %	

Compression Set 22h/70°C, %	26
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/ ºC,%	

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

Other Tests and Info: Millathane 97 of high viscosity (60+ ML(1+4)/100°C) is recommended. *Silquest RC-1 can be used.

10/21/2016

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