TSE Industries, Inc.
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Formula ID	631	Compound No.	CM-Hose-Fr	Cure:	S
		Color:	B	Type:	Polyether

Application: 55 Shore A Millathane® CM Black Hose Friction Compound

Millathane® CM	100.00
Zinc Stearate	0.35
N990 Black	20.00
Cumar P-10	20.00
Polyisobutylene	20.00
MBTS	3.00
MBT	1.50
Thanecure® ZM	0.35
Sulfur	1.00
Total	166.20

Durometer, Shore A	55	
Durometer, Shore D		
100% Modulus, psi	135	0.9 MPa
200% Modulus, psi		MPa
300% Modulus, psi		MPa
Tensile Strength, psi	2370	16.3 MPa
Elongation,%	750	
Tear Die C, lb/sq. in.	135	23.6 kN/m
Specific Gravity, g/cc	1.095	
CureTime, minutes		
Cure Temp°F	307	153 °C
Mooney Viscosity, ML4/100°C		
Bashore Resilience, %		
Brittle Point, °C		
Compression Set 22h/70°C, %	56	
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:
Hrs ºC %Set

Surface Resistivity, ohm/cm²	
Volume Resistivity, ohm-cm	
DIN Abrasion, mm³ loss	
UL 94 Rating:	

Heat Aging 70 Hrs at 100 °C

Hardness Change, pts.	2
Tensile Change, %	-11
Elongation Change, %	-24

Fluid Aging ASTM #3 Oil 70 Hrs at 100 °C

Hardness Change, pts.	
Tensile Change, %	
Elongation Change, %	
Volume Change, %	63.0

Other Tests and Info: IRHD=49; ASTM #1 Oil, 70 hr/100C: 0% Volume change, ASTM Fuel B, 48 hr/40C: +73% Volume Change, Distilled Water: 168 hr/70C: +8% Volume Change. Calendering conditions and construction/curing info shown in file Millathane CM Hose Compounds

3/23/2005

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