



Formula ID 631 Compound CM-Hose-Fr Cure: S Color: B  
Urethane Type: Polyether

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

Millathane® CM	100.00	Durometer, Shore A	55	
Zinc Stearate	0.35	Durometer, Shore D		
N990 Black	20.00	Durometer, Asker C		
Cumar P-10	20.00	25% Modulus, psi		MPa
Polyisobutylene	20.00	50% Modulus, psi		MPa
MBTS	3.00	100% Modulus, psi	135	0.9 MPa
MBT	1.50	200% Modulus, psi		MPa
Thanecure® ZM	0.35	300% Modulus, psi		MPa
Sulfur	1.00	Tensile Strength, psi	2370	16.3 MPa
		Elongation, %	750	
		Tear Die C, lb/in.	135	23.6 kN/m
		Tear Die B, lb/in.		kN/m
		Tear Die T, lb/in.		kN/m
		Specific Gravity, g/cc	1.095	
		CureTime, minutes		
		Cure Temp°F	307	153 °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.	2	
		Tensile Change, %	-11	
		Elongation Change, %	-24	
		<b>Fluid Aging</b> Oil, ASTM #3		
		<input type="text" value="70"/> Hrs at <input type="text" value="100"/> °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Volume Change, %	63.0	
		Surface Resistivity, ohm/cm <sup>2</sup>		
		Volume Resistivity, ohm-cm		
		UL 94 Rating:		
		<b>Total</b>	166.20	
Brittle Point, °C				
TR10, °C (ASTM D1329)				
Bashore Resilience, %				
DIN Abrasion, mm <sup>3</sup> loss				
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:				
	<input type="text"/> h/ <input type="text"/> °C, % <input type="text"/>			

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

10/1/2020

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