

**TSE Industries, Inc.**

4370 112th Terrace North  
 Clearwater, FL 33762 (USA)  
 727-573-7676 or 800-237-7634 www.tse-industries.com

Formula ID 519 Compound M66-78 Cure: P Color: NB  
 Urethane Type: Polyester

Application: 70 Shore A Yellow Millathane® 66 Molding Compound

Millathane® 66**	100.00	Durometer, Shore A	70	
Stearic Acid	0.20	Durometer, Shore D		
Hi-Sil 233	30.00	Durometer, Asker C		
Silquest A-172	0.50	25% Modulus, psi		MPa
Irganox 1010	0.50	50% Modulus, psi		MPa
Irganox MD-1024	0.50	100% Modulus, psi	462	3.2 MPa
Struktol WB-222	0.20	200% Modulus, psi	1016	7.0 MPa
Yellow	2.00	300% Modulus, psi	1683	11.6 MPa
Luperox 231	2.50	Tensile Strength, psi	3721	25.7 MPa
		Elongation, %	508	
		Tear Die C, lb/in.	311	54.4 kN/m
		Tear Die B, lb/in.		kN/m
		Specific Gravity, g/cc		
		CureTime, minutes	7	
		Cure Temp°F	300	149 °C
		Mooney Viscosity, ML4/100°C		
		<b>Heat Aging</b> <input type="text"/> Hrs at <input type="text"/> °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		<b>Fluid Aging</b> <input type="text"/> Hrs at <input type="text"/> °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Volume Change, %		
		Surface Resistivity, ohm/cm <sup>2</sup>		
		Volume Resistivity, ohm-cm		
		UL 94 Rating:		
	<b>Total</b>		136.40	
Brittle Point, °C	<input type="text"/>			
TR10, °C (ASTM D1329)	<input type="text"/>			
Bashore Resilience, %	<input type="text"/>			
DIN Abrasion, mm <sup>3</sup> loss	<input type="text"/>			
Compression Set 22h/70°C, %	<input type="text"/>			
Compression Set 70h/70°C, %	<input type="text"/>			
Compression Set 22h/100°C, %	<input type="text"/>			
Compression Set 70h/100°C, %	<input type="text"/>			
Compression Set 22h/125°C, %	<input type="text"/>			
Compression Set 22h/150°C, %	<input type="text"/>			
Compression Set, Other conditions:	<input type="text"/>			
	<input type="text"/> h/ <input type="text"/> °C, %			

Other Tests and Info:

\*\*Millathane 66 PREMILLED should be used at 101.5 phr, as it contains 1.5 phr of hydrolysis stabilizer, or hydrolysis stabilizer (e.g., Millstab P) should be added to the formula at 1-3 phr, for better hydrolysis resistance.

4/24/2014

The recommendations for the use of our products are based on tests believed to be reliable. However, we do not guarantee the results to be obtained by others under different conditions. Nothing in this literature is intended as a recommendation to use our products so as to infringe on any patent. Millstab™ is a trademark, and Millathane® and Thanecure® are registered trademarks of TSE Industries, Inc.