



Formula ID 1045 Compound XP-4444-D Cure: P Color: NB
Urethane Type: Polyether

Application: 93 Shore A Non-Black Millathane® 26 Roll or Molding Compound

Millathane® 26	100.00	Durometer, Shore A	93	
Stearic Acid	0.30	Durometer, Shore D	42	
Hi-Sil 243LD	30.00	Durometer, Asker C		
Wacker HDK-N20 fumed silica	15.00	25% Modulus, psi	581	4.0 MPa
Struktol WB-222	2.00	50% Modulus, psi	659	4.5 MPa
SR 231 (DEGDMA)	12.00	100% Modulus, psi	815	5.6 MPa
SR 350 (TMPTMA/TRIM)	12.00	200% Modulus, psi	1214	8.4 MPa
DiCup 40C	4.00	300% Modulus, psi	1742	12.0 MPa
		Tensile Strength, psi	2871	19.8 MPa
		Elongation, %	468	
		Tear Die C, lb/in.	331	57.9 kN/m
		Tear Die B, lb/in.	419	73.3 kN/m
		Tear Die T, lb/in.		kN/m
		Specific Gravity, g/cc	1.200	
		CureTime, minutes	17	
		Cure Temp°F	320	160 °C
		Mooney Viscosity, ML4/100°C	73	
		Heat Aging <input type="text"/> Hrs at <input type="text"/> °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Fluid Aging <input type="text"/> Hrs at <input type="text"/> °C		
		Hardness Change, pts.		
		Tensile Change, %		
		Elongation Change, %		
		Volume Change, %		
		Surface Resistivity, ohm/cm ²		
		Volume Resistivity, ohm-cm		
		UL 94 Rating:		
	Total	175.30		
Brittle Point, °C				
TR10, °C (ASTM D1329)				
Bashore Resilience, %	35			
DIN Abrasion, mm ³ loss	91			
Compression Set 22h/70°C, %	29			
Compression Set 70h/70°C, %				
Compression Set 22h/100°C, %	50			
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, %			

Other Tests and Info: NOTE: This compound is NOT compliant with FDA regulation 21CFR177.2600. Compound has very good retention of hardness and tensile upon overcuring Tc90+10'. Adding about 1 phr of an antioxidant like Irganox 1010 will improve heat aging and minimize "sticky flash".

10/1/2020

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