

Formula ID 587 Compound V	7831A-J1	Cure: P	Color:	В	
Urethane T				: Polyester	
Application: 67 Shore A, Black, Millathane® 5004 Compound for Fuel Bladders					
	100.00	Dumanatan Cha		07	
Millathane® 5004*	100.00	Durometer, Shore A Durometer, Shore D		67	
Stearic Acid	0.25	Durometer, Asker C			
N330 Black	35.00	25% Modulus, r			MPa
TP-90B	10.00	50% Modulus, psi			MPa
DiCup 40C	5.00	100% Modulus,		MPa	
		200% Modulus,			MPa
(see notes below)		300% Modulus, psi Tensile Strength, psi Elongation,%		1370	9.4 MPa
				2460	17.0 MPa
				670	
		Tear Die C, lb/ii		360	
		Tear Die B, lb/in			kN/m
		Tear Die T, lb/ir			kN/m
		Specific Gravity	v, g/cc		
		CureTime, minu	utes	20	
		Cure Temp°F		320	160 °C
		Mooney Viscos	ity, ML4/100°C	56	
Total 150.25 Heat Aging 70 Hrs at 125 °C					
Brittle Point, °C	-57	Hardness Cha		11	
TR10, °C (ASTM D1329)	-38	Tensile Change, %		34	
Bashore Resilience, %		Elongation Ch	ange, %	-27	
DIN Abrasion, mm <sup>3</sup> loss					
70 Hrs at 88 °C					
Compression Set 22h/70°C, %		Hardness Cha		0	
Compression Set 70h/70°C, %		Tensile Chang		1	
Compression Set 22h/100°C, % 61		Elongation Ch Volume Chan		15 -0.2	
Compression Set 70h/100°C, %				-0.2	
Compression Set 22h/125°C, %		Surface Resisti			
Compression Set 22h/150°C, %		Volume Resistivity, ohm-cm			
Compression Set, Other conditions	UL 94 Rating:				
Other Tests A process aid such as Struktol WB222 should be added at 0.5-2.0 and *Millstab P added at 1-3 phr for improved					
and Info: hydrolysis resistance. Aging in JP8 Fuel 70 hr/88C: H=+3, TS=+4%, E=+7%, V=-5%; TR10=-38C, TR30=-23C,					
TR50=-18C; Brittle point after JP4 aging=-52C; Brittle point after JP8 aging=-57C					

## 10/1/2020

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