

TSE Industries, Inc.

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121 010 1010 01 000 201 1001 WWW.000 Waddings.

587 Cure: P Compound No. V7831A-J Formula ID Color: B Type: Polyester Application: 67 Shore A Black Millathane® 5004 Compound for Fuel Bladders Millathane® 5004 100.00 Durometer, Shore A 67 Stearic Acid 0.25 Durometer, Shore D N330 Black 35.00 100% Modulus, psi MPa TP-90B 10.00 200% Modulus, psi MPa DiCup 40C 5.00 300% Modulus, psi 1370 9.4 MPa Tensile Strength, psi 2460 17.0 MPa Elongation,% 670 Tear Die C, lb/sq. in. kN/m Specific Gravity, g/cc 20 CureTime, minutes Cure Temp°F 320 160 °C Mooney Viscosity, ML4/100°C 56 Bashore Resilience, % Brittle Point, °C -57 Compression Set 22h/70°C, % Total 150.25 Compression Set 70h/70°C, % Compression Set 22h/100°C, % 61 Compression Set 70h/100°C, % Surface Resistivity, ohm/cm² Compression Set 22h/125°C, % Volume Resistivity, ohm-cm Compression Set 22h/150°C, % DIN Abrasion, mm³ loss Compression Set - Other Conditions: UL 94 Rating: Hrs ОC %Set **Heat Aging** 70 Hrs at 125 °C Fluid Aging JP4 Fuel 70 Hrs at 88 °C Hardness Change, pts. 11 Hardness Change, pts. 0 Tensile Change, % 34 Tensile Change, % 1 Elongation Change, % -27 Elongation Change, % 15 Volume Change, % -0.2A process aid such as Struktol WB222 should be added at 0.5-2.0 phr to aid in processing and Other Tests and Info: prevent sticking. 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

3/23/2005