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

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

Urethane Type: Polyether

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

Millathane® 26	100.00
Stearic Acid	0.30
Hi-Sil 243LD	30.00
Wacker HDK-N20 fumed silica	15.00
Struktol WB-222	2.00
SR 231 (DEGDMA)	12.00
SR 350 (TMPTMA/TRIM)	12.00
DiCup 40C	4.00
Total	175.30

Brittle Point, °C	
TR10, °C (ASTM D1329)	
Bashore Resilience, %	35
DIN Abrasion, mm³ 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: h/ ºC,%	

Durometer, Shore A	93	
Durometer, Shore D	40	
25% Modulus, psi		MPa
50% Modulus, psi		MPa
100% Modulus, psi	1065	7.3 MPa
200% Modulus, psi	1685	11.6 MPa
300% Modulus, psi	2508	17.3 MPa
Tensile Strength, psi	2883	19.9 MPa
Elongation,%	342	
Tear Die C, lb/in.	279	48.8 kN/m
Tear Die B, lb/in.	407	71.2 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 Hrs at °C

Hardness Change, pts.	
Tensile Change, %	
Elongation Change, %	

Fluid Aging

Hrs at °C

Hardness Change, pts.	
Tensile Change, %	
Elongation Change, %	
Volume Change, %	
Surface Resistivity, ohm/cm²	
Volume Resistivity, ohm-cm	
UL 94 Rating:	

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'.

3/24/2010

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