



4.1.4 Shrinkage: Compound mixed with the recommended catalyst addition (See 4.1.1) and free of air shall be capable of not shrinking more than 1% in any direction when cured for 24 hr in a mold followed by 48 hr in open air. Test specimen shall be a standard test slab approximately 6 in. x 6 in. and 0.075 in.  $\pm$  0.005 thick. Curing temperature shall be 75 F  $\pm$  5 (23.9 C  $\pm$  2.8).

4.1.5 Corrosion: The product shall not have a corrosive effect on other materials when exposed to conditions normally encountered in service. Discoloration of metal shall not be considered objectionable.

4.2 Properties: The compound, when mixed with the recommended catalyst addition (See 4.1.1) and cured, shall conform to the requirements of 4.2.1, and shall be capable of meeting the requirements of 4.2.2, 4.2.3, and 4.2.4. Tests shall be performed in accordance with the issue of the listed ASTM methods specified in the latest issue of AMS 2350 insofar as practicable, on standard test slabs prepared in accordance with 4.1.4. Test results from specimens found to contain air bubbles at the point of break shall be discarded and new specimens selected for test. Air bubbles may be minimized by subjecting the catalyzed compound to low pressures or centrifuging before curing.

4.2.1 As Cured:

4.2.1.1 Hardness, Durometer "A" or equiv. 35 - 55

4.2.1.2 Tensile Strength, psi, min 250 ASTM D412, Die B or C

4.2.1.3 Elongation, %, min 100 ASTM D412, Die B or C

4.2.1.4 Dielectric Strength, v per mil, min 300 ASTM D149  
Electrode Dia: 2 in.  
Rate of Rise: 500 v per sec

4.2.2 Dry Heat Resistance: ASTM D573

4.2.2.1 Hardness Change, Durometer "A" or equiv. -10 to + 10  
Temperature: 450 F  $\pm$  5  
(232.2 C  $\pm$  2.8)  
Time: 24 hr

4.2.2.2 Tensile Strength Change, %, max -25

4.2.2.3 Elongation Change, %, max -25

4.2.3 Compression Set: ASTM D395, Method B

4.2.3.1 Per cent of original deflection, max 60  
Temperature: 212 F  $\pm$  5  
(100 C  $\pm$  2.8)

4.2.3.2 Per cent of original thickness, max 15  
Time: 22 hr

4.2.4 Low Temperature Resistance: ASTM D746, Procedure B

4.2.4.1 Brittleness Pass  
Temperature: -67 F  $\pm$  2  
(-55 C  $\pm$  1.1)  
Time: 10 min.