**POLYVINYL CHLORIDE (PVC), FLEXIBLE, 55 A DUROMETER HARDNESS, INTERIOR** — **WSB-M4D871-A1**

**POLYVINYL CHLORIDE (PVC), FLEXIBLE, 65 A DUROMETER HARDNESS, INTERIOR** — **WSB-M4D871-A2**

**POLYVINYL CHLORIDE (PVC), FLEXIBLE, 75 A DUROMETER HARDNESS, INTERIOR** — **WSB-M4D871-A3**

**POLYVINYL CHLORIDE (PVC), FLEXIBLE, 85 A DUROMETER HARDNESS, INTERIOR** — **WSB-M4D871-A4**

## 1. SCOPE

The materials defined by these specifications are flexible polyvinyl chloride compounds.

## 2. APPLICATION

These specifications were released originally for materials used for interior trim applications such as armrests, grab handles and other applications.

## 3. REQUIREMENTS

### 3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

### 3.4 MOLDED TEST SPECIMEN

3.4.1 Preparation of Test Specimens

Unless otherwise specified, all test shall be conducted on specimens die cut from ungrained compression molded plaques 150 x 150 x 2.0 +/- 0.2 mm molded according to ISO 293.

| | | A1 | A2 | A3 | A4 |
|---|---|---|---|---|---|
| 3.4.2 | Density, g/cm³, max (ISO 1183, Method A/ ASTM D 792, Method A) | 1.30 | 1.35 | 1.40 | 1.45 |
| 3.4.3 | Hardness, Durometer A, +/- 5 (ISO 868/ASTM D 2240, 6 mm thick plied-up specimens, 15 s delay) | 55 | 65 | 75 | 85 |

| Date | Action | Revisions |
|---|---|---|
| | | |
| 2006 05 22 | Revised | Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.7, 3.8 & 4 |
| 1993 01 21 | Released | NB00I10043054220 DAR KPM BCF |

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| | | A1 | A2 | A3 | A4 |
|---|---|---|---|---|---|
| 3.4.4 | Tensile Strength, MPa, min (ISO R 527, type 2/ ASTM D 638M, type M-II, 500 mm/min test speed) | 6.9 | 9.6 | 10.3 | 12.4 |
| 3.4.4.1 | Elongation at Break, %, min (Test Method acc. to para 3.4.4) | 350 | 300 | 250 | 200 |
| 3.4.5 | Tear Strength, kN/m, min (ISO 34,Method B, Procedure a/ASTM D 624, Die C) | 18 | 26 | 35 | 44 |
| 3.4.6 | Cold Flexibility, °C (FLTM BN 102-01, except specimen 25 x 150 mm, minimum and 19-20 mm mandrel) | -40 | -34 | -29 | -23 |
| | | No cracking at specified temperature | | | |

3.4.7 Soiling and Cleanability, (NAAO Molders only) (FLTM BN 112-01)

| | |
|---|---|
| Soiling, %, max | 15 |
| Cleanability, %, max | 5 |

3.4.8 Color Stability (ISO 188/ASTM D 573, 168 h at 100 +/- 2 °C)

After exposure the material shall not exhibit color change in excess of rating 4 of Gray Scale rating (AATCC Evaluation Procedure 1/ISO 105-A02).

In addition there shall be not be any staining, spewing, loss of gloss.

3.4.9 Heat Aging Performance (ISO 188/ASTM D 573, 150 +/- 50 air changes/h, 1000 h at 85 +/- 2 °C. Unaged property values shall be determined at the time of the aged properties determination)

| | | |
|---|---|---|
| 3.4.9.1 | Tensile Strength Change (Test Method per para 3.4.4) | +/- 15% |
| 3.4.9.2 | Elongation Change (Test Method per para 3.4.4) | +/- 15% |
| 3.4.9.3 | Weight Change, max (50 x 25 x 2 +/- 0.2 mm specimen) | 2% |

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