

## PORON® 4701-30-20064-04P Very Soft –Supported – Data Sheet

| PROPERTY  | TEST METHOD   | VALUE   |
|---|---|---|
| <b>PHYSICAL</b>   |   |   |
| Density, kg/m <sup>3</sup><br>(lb./ft <sup>3</sup> )                  | ASTM D 3574-95, Test A  | 320<br>(20)   |
| Tolerance, %  |   | ± 10  |
| Thickness, mm<br>(inches)   |   | 1.63<br>(0.064)   |
| Tolerance, %  |   | ± 10  |
| Standard Color (Code)   |   | Black (04)  |
| Compression Force Deflection<br>Range kPa (psi),<br>Typical kPa (psi) | 0.51 cm/min (0.2" / min) Strain Rate<br>Force Measured @ 25% Deflection           | 21 – 55 (3 - 8)<br>34 (5.0)   |
| Compression Set, % max.   | ASTM D 1667-90<br>Test D @ 23°C (73°F)<br>ASTM D 3574-95<br>Test D @ 70°C (158°F) | 4<br><br>10   |
| <b>ELECTRICAL AND THERMAL</b>   |   |   |
| Dielectric Constant, K, "DK"  | ASTM D 150 measurements at 22°C<br>(72°F) relative humidity 50% for 24 hrs.       | 1.75  |
| Dielectric Strength, kV/m (volts/mil)                                 | ASTM D 149-97a  | 1969 (50)   |
| Dissipation Factor, tan D, "DF"                                       | ASTM D 150-98   | 0.05  |
| Volume Resistivity, ohm-cm (ohm-in)                                   | ASTM D 257-99   | 3.1 x 10 <sup>11</sup> (1.22 x 10 <sup>11</sup> )                           |
| Surface Resistivity, ohm/sq.  | ASTM D 257-99   | 5.9 x 10 <sup>11</sup>  |
| Coefficient of Thermal Expansion                                      |   | 2.3 - 3.1 x 10 <sup>-4</sup> in/in/°C (1.3-1.7 x 10 <sup>-4</sup> in/in/°F) |
| <b>TEMPERATURE RESISTANCE</b>   |   |   |
| Recommended Constant Use, max.  | SAE J-2236  | 90°C (194°F)  |
| Recommended Intermittent Use, max.                                    |   | 121°C (250°F)   |
| Embrittlement   | ASTM D 746-98   | -51°C (-60°F)   |

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## PORON® 4701-30-20064-04P Very Soft –Supported, Continued

| PROPERTY   | TEST METHOD                              | VALUE        |
|--|--|--------------|
| <b>OUTGASSING</b>  |  |              |
| Fogging  | SAE J-1756                               | Pass         |
| Outgassing   |  |              |
| Total Mass Loss (TML) %  | ASTM E 595-93                            | 1            |
| Collected Volatile Condensable Materials (CVCM) %                | 24 hrs @125°C (257°F) @ <7 kPa (1.02psi) | 0.1          |
| Water Vapor Regain (WVR) %                                       |  | 0.3          |
| <b>ENVIRONMENTAL</b>   |  |              |
| Gasketing and Sealing  | UL JMST2 (Consisting of UL50 and UL508)  | File MH15464 |
| Water Absorption, High Humidity Exposure, % weight gain, typical | AMS 3568-95                              | 2            |
| Water Absorption, Immersion Testing, % weight gain, typical      | ASTM D 570-95                            | 9            |

The data mentioned above represents results of testing the PORON polyurethane foam only. PORON cellular polyurethane material is supported by being directly cast onto 2 mil polyester film. By casting directly onto the film, a permanent bond is created. Please see physical property data for the film as represented by manufacturer below.

### Supporting Material - Clear Polyester Film (PET)

| PROPERTY   | TEST METHOD              | VALUE                           |
|--|--------------------------|---------------------------------|
| Coefficient of Friction A/B, (Kinetic)               | ASTM D 1894              | 0.40                            |
| Density, kg /m <sup>3</sup> (lb. / ft <sup>3</sup> ) | ASTM D 1505              | 1.395 (87.1)                    |
| Modulus, MD, kPa (psi)                               | ASTM D 882               | 3.5 x 10 <sup>6</sup> (500,000) |
| Shrinkage, MD, %, (TD)                               | 39 min. at 150°C (302°F) | 1.2 (0.0)                       |
| Tensile Strength, MD, kPa (psi)                      | ASTM D 882               | 2.1 x 10 <sup>5</sup> (30,000)  |
| Ultimate Elongation                                  | ASTM D 882               | 150                             |
| Yield Strength (F5), kPa (psi)                       | ASTM D 882               | 1.0 x 10 <sup>5</sup> (15,000)  |

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

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