Product DataSheet

# PORON® EVExtend 4701-43RL

| PROPERTY | TEST METHOD | VALUE | |
|---|---|---|---|
| ***PHYSICAL*** | | | |
| Density, kg /m³ (lb. / ft³) | ASTM D 3574-95, Test A | 160 (10) | 192 (12) |
| Tolerance, % | | ± 10 | |
| Thickness, mm<br>(inches) | | 1.0 – 3.0<br>(0.039 - 0.118) | 1.0 – 3.0<br>(0.039 - 0.118) |
| Tolerance, %, ≥2mm | | 5% | |
| Tolerance, %, <2mm | | 7.5% | |
| Standard Color (Code) | | Black (04) | |
| Compression Force Deflection,<br>Range kPa (psi) | 0.51 cm/min (0.2" / min). Strain Rate<br>Force Measured @ 25% Deflection | 27-55 (4-8) | 41-83 (6-12) |
| Typical kPa (psi) | Force Measured @ 10% Deflection | 32.8 (4.8) | 43.4 (7.3) |
| | Force Measured @ 20% Deflection | 36.6 (5.4) | 56.5 (8.6) |
| | Force Measured @ 25% Deflection | 39.1 (5.8) | 61.1 (9.3) |
| | Force Measured @ 30% Deflection | 42.1 (6.3) | 66.3 (10.2) |
| | Force Measured @ 40% Deflection | 50.9 (7.7) | 81.5 (12.5) |
| | Force Measured @ 50% Deflection | 66.1 (10.0) | 108 (16.6) |
| | Force Measured @ 60% Deflection | 97.9 (15.0) | 162 (25.2) |
| | Force Measured @ 70% Deflection | 181 (27.8) | 306 (47.6) |
| | Force Measured @ 80% Deflection | 450 (69.2) | 728 (115) |
| Compression Set, % max. | ASTM D 3574-95 Test D @ 23°C (73°F)<br>ASTM D 3574-95 Test D @ 70°C (158°F) | 5<br>5 | |
| Tensile Strength, Min. kPa, (psi) | ASTM D 3574-75 Test E | 345 (50) | |
| Tensile Elongation, % min., | ASTM D 3574-75 Test E | 80 | |
| Tear Strength, kN/m (pli) min | ASTM D 264-91 Die C | 1.23 (7) | |
| ***ELECTRICAL AND THERMAL*** | | | |
| Thermal Conductivity, W/m-C<br>(BTU-in./hr/ft²-F) | ASTM C 518-98 | 0.050 (0.35) | 0.052 (0.36) |
| Dielectric Strength, volts/mil | ASTM D150 measurements at 22°C (72°F) relative humidity, 50% for 24 hours | 56 | |

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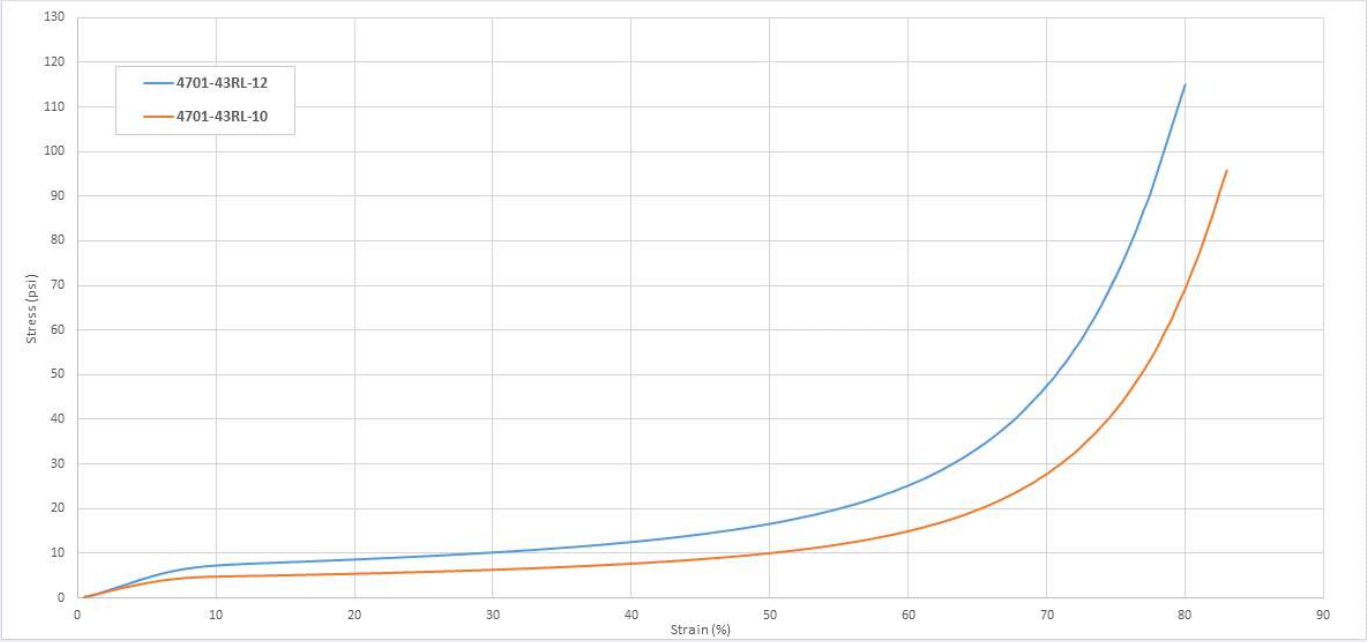
| PROPERTY | TEST METHOD | VALUE | |
|---|---|---|---|
| ***TEMPERATURE RESISTANCE*** | | | |
| Recommended Constant Use, max. | SAE J-2236 | 90C | |
| Recommended Intermittent Use, max. | | 121C | |
| Embrittlement | ASTM D 746-98 | -20°C | |
| ***FLAMMABILITY AND OUTGASSING*** | | | |
| Outgassing, Total Mass Loss (TML) % | Internal Method: 24 hrs @ 125˚C (257˚F) | 0.73 | 0.66 |
| Outgassing, Water Vapor Regain (WVR) % | | 0.62 | 0.51 |
| ***ENVIRONMENTAL*** | | | |
| Water Absorption, Immersion Testing, % weight gain, typical | ASTM D 570-95 | 20 | |
| Water Absorption, High Humidity Exposure, % weight gain, typical | ASTM 3568 | 2 | |

**Product is supplied on a release PET.
**Thickness availability may vary by construction type. Contact your local sales or customer service representative.

**Notes:**

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



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