



Product Data Sheet



PORON® 4701-30-25047-04P Very Soft Supported

| PROPERTY | TEST METHOD | TYPICAL VALUE |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|
| PHYSICAL | | |
| Density, kg/m ³ (lb./ft ³) | ASTM D3574-95, Test A | 400 (25) |
| Tolerance, % | | ± 10 |
| Thickness, mm (inches) | | 1.19 (0.047) |
| Tolerance, % | | ± 15 |
| Standard Color (Code) | | Black (04) |
| Compression Force Deflection, Range kPa, (psi) Typical kPa, (psi) | 0.51cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection | 35 - 83 (5 - 12) 58 (8.4) |
| Compression Set, % max | ASTM D1667-90 Test D @ 23°C (73°F) ASTM D3574-95 Test D @ 70°C (158°F) | 4 10 |
| ELECTRICAL & THERMAL | | |
| Dielectric Constant, K' ("DK") | ASTM D150 Measurements at 22°C (72°F) Relative Humidity 50% for 24 hrs. | 1.75 |
| Dielectric Strength, kV/m (volts/mil) | ASTM D149-97a | 1969 (50) |
| Dissipation Factor, tan D ("DF") | ASTM D150-98 | 0.05 |
| Volume Resistivity, ohm-cm (ohm-in) | ASTM D257-99 | 3.1 x 10 ¹¹ (1.22 x 10 ¹¹) |
| Surface Resistivity, ohm/sq | ASTM D257-99 | 5.9 x 10 ¹¹ |
| Coefficient of Thermal Expansion | | 2.3-3.1 x 10 ⁻⁴ in/in/°C (1.3-1.7 x 10 ⁻⁴ in/in/°F) |
| TEMPERATURE RESISTANCE | | |
| Recommended Constant Use, max. | SAE J-2236 | 90°C (194°F) |
| Recommended Intermittent Use, max. | | 121°C (250°F) |
| Embrittlement | ASTM D746-98 | -51°C (-60°F) |



The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of PORON Polyurethane Foam Materials for each application. The Rogers logo, PORON, and the PORON logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2025 Rogers Corporation. All rights reserved. 0825-PDF • Publication #17-089PC
www.rogerscorp.com

| PROPERTY | TEST METHOD | TYPICAL VALUE |
|----------------------------------------------------|----------------------------------------------|---------------|
| OUTGASSING | | |
| Fogging | SAE J-1756, 3 hrs @ 100°C (212°F) | Pass |
| Outgassing | | |
| Total Mass Loss (TML) % | ASTM E595-93 | 1.3 |
| Collected Volatile Condensable Materials, (CVCN) % | 24 hrs @ 125°C (257°F) @ <7kPa (1.02 psi) | 0.2 |
| Water Vapor Regain (WVR) % | | 0.6 |

ENVIRONMENTAL

| | | |
|------------------------------------------------------------------------|---------------------------------------|--------------|
| Gasketing & Sealing | UL JMST2 (Consisting of UL50 & UL508) | File MH15464 |
| Moisture Absorption, High Humidity Exposure, % Weight Gain, Typical | AMS 3568-95 | 2 |
| Water Absorption, Immersion Testing, % Weight Gain, Typical | ASTM D570-95 | 14 |

The data mentioned above represents results of testing the PORON polyurethane foam only. PORON cellular polyurethane material is supported by being directly cast onto 0.05 mm (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 D1894 | 0.40 |
| Density, kg/m ³ (lb/ft ³) | ASTM D1505 | 1395 (87.1) |
| Modulus, MD, kPa (psi) | ASTM D882 | 3.5 x 10 ⁶ (500,000) |
| Shrinkage, MD, % (TD) | 39 min. @ 150°C (302°F) | 1.2 (0.0) |
| Tensile Strength, MD, kPa (psi) | ASTM D882 | 2.1 x 10 ⁵ (30,000) |
| Ultimate Elongation, % | ASTM D882 | 150 |
| Yield Strength (F5), kPa (psi) | ASTM D882 | 1.0 x 10 ⁵ (15,000) |

Notes:

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



120 Seegers Ave, Elk Grove Village, IL 60007

Phone: 847.593.5630

srpco.com

info@srpco.com