

PORON®
4790-92-25024-04P
Extra Soft Slow Rebound
Supported

| PROPERTY | TEST METHOD | VALUE |
|---|---|---|
| PHYSICAL | | |
| Density, kg/m ³ (lb./ft ³) | ASTM D3574-95, Test A | 400 (25) |
| Tolerance, % | | ± 10 |
| Thickness, mm (inches) | | 0.61 (0.024) |
| Tolerance, mm, (inches) | | 0.08 (± 0.003) |
| Standard Color (Code) | | Black (04) |
| Compression Force Deflection, kPa (psi) | 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection | 8 - 58 (1.25 - 8.5) |
| Typical kPa (psi) | | 37 (5.3) |
| Compression Set, % max | ASTM D3574-95 Test D @ 23°C (73°F) | 2 |
| | ASTM D3574-95 Test D @ 70°C (158°F) | 10 |
| ELECTRICAL & THERMAL | | |
| Dielectric Constant, K' ("DK") | ASTM D150 @ 22°C (72°F) Relative Humidity 50% for 24 hrs | 1.48 |
| Dielectric Strength, kV/m (volts/mil) | ASTM D149-97a | 1969 (50) |
| Dissipation Factor, tan D ("DF") | ASTM D150-98 | 0.04 |
| Volume Resistivity, ohm-cm (ohm-in) | ASTM D257-99 | 8 x 10 ¹¹ (3.2 x 10 ¹¹) |
| Surface Resistivity, ohm/sq. | ASTM D257-99 | 10 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 | -12°C (10°F) |

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|--|---|-------|
| OUTGASSING | | |
| Fogging | SAE J-1756 3 hrs @ 100°C (212°F) | Pass |
| Outgassing, Total Mass Loss (TML) % | ASTM E595-93 24 hrs @ 125°C (257°F) @ <7 x 10 ³ kPa | 1.44 |
| Outgassing, Collected Volatile Condensable Materials (CVC) % | | 0.27 |
| Outgassing, Water Vapor Regain (WVR) % | | 0.44 |
| ENVIRONMENTAL | | |
| Moisture Absorption, High Humidity Exposure, % weight gain, typical | AMS 3568-95 | 2 |
| Water Absorption, Immersion Testing, % weight gain, typical | ASTM D 570-95 | 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 0.05mm (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.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com