# PORON® AquaPro® Family Formulation 37-Supported

| PROPERTY | TEST METHOD | VALUE |
|---|---|---|
| **PHYSICAL** | | |
| Density, kg/m³ (lb./ft³) | ASTM D 3574-95, Test A | 304 (19) |
| Tolerance, kg/m³ (lb./ft³) | | ± 32 (2) |
| Thickness, mm (inches) | ASTM D 3574-95, Test A | 0.50 – 1.0 (0.020 – 0.039) |
| Tolerance, % | | ± 0.10 (.0039) |
| Standard Color (Code) | | Black (04) |
| Compression Force Deflection, kPa (psi) | 0.51 cm/min (0.2"/min) Strain Rate Force Measured @ 25% Deflection | 41 - 110 (6- 16) |
| Compression Set, % max After 24 hour recovery | ASTM D3574-95 Test D @ 70°C (158°F) | 10 |
| **TEMPERATURE RESISTANCE** | | |
| Recommended Constant Use, max. | SAE J-2236 | 90°C (194°F) |
| Recommended Intermittent Use, max. | UL 157 | 121°C (250°F) |
| **OUTGASSING** | | |
| Fogging | SAE J-1756 3 hrs @ 100°C (212°F) | No Fogging |
| Outgassing, Total Mass Loss (TML) % | ASTM E595 24 hrs @ 125°C (257°F) @ <7 x 10³ Pa | 0.58 |
| Outgassing, Collected Volatile Condensable Materials (CVCM) % | | 0.02 |
| Outgassing, Water Vapor Regain (WVR) % | | 0.09 |

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|---|---|---|
| **ENVIRONMENTAL** | | |
| Moisture Absorption, High Humidity Exposure, % Weight Gain | AMS 3568 | 1.1 |
| Water Immersion, % | ASTM D570 | 2.84 |
| Water Absorption, Vacuum Exposure, % Weight Gain | ASTM D1056 | 0.94 |
| | ASTM 3568B | 0.33 |

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)

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|---|---|---|
| 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 | $3.5 \times 10^6$ (500,000) |
| Shrinkage, MD, % (TD) | 39 min. @ 150°C (302°F) | 1.2 (0.0) |
| Tensile Strength, MD, kPa (psi) | ASTM D882 | $2.1 \times 10^5$ (30,000) |
| Ultimate Elongation, % | ASTM D882 | 150 |
| Yield Strength (F5), kPa (psi) | ASTM D882 | $1.0 \times 10^5$ (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