

# PORON® AquaPro® Family Formulation 37 – Supported – Data Sheet

| PROPERTY  | TEST METHOD  | VALUE                      |
|---|--|----------------------------|
| <b>PHYSICAL</b>                                       |  |                            |
| Density, kg/m <sup>3</sup> (lb. / ft <sup>3</sup> )   | ASTM D 3574, Test A  | 304 (19)                   |
| Tolerance, kg/m <sup>3</sup> (lb. / ft <sup>3</sup> ) |  | ± 32 (2)                   |
| Thickness, mm (in)                                    | ASTM D 3574, Test A  | 0.50 – 1.0 (0.020 – 0.039) |
| Tolerance   |  | ± 0.10 (.0039)             |
| Compression Force Deflection, kPa                     | Modified ASTM D 3574:<br>PTP-0033 at 25% deflection          | 41 – 110                   |
| (psi)   |  | (6 – 16)                   |
| Compression Set, % max. after 24 hour recovery        | ASTM D 3574 Test D @ 70°C (158°F)                            | 10                         |
| Standard Color (Code)                                 |  | Black (04)                 |
| Recommended Constant Use, Max °C (°F)                 | SAE J-2236   | 90 (194)                   |
| Recommended Intermittent Use, Max °C (°F)             | UL 157   | 121 (250)                  |
| <b>OUTGASSING</b>                                     |  |                            |
| Fogging   | SAE J-1756 3 hrs @ 100°C (212°F)                             | No Fogging                 |
| Outgassing, Total Mass Loss (TML) %                   | ASTM E 595 24 hrs @ 125°C (257°F)<br>@ <7x10 <sup>3</sup> Pa | 0.58                       |
| Collected Volatile Condensable Materials (CVCM) %     |  | 0.02                       |
| Water Vapor Regain (WVR) %                            |  | 0.09                       |
| <b>ENVIRONMENTAL</b>                                  |  |                            |
| Moisture Absorption, High Humidity Exposure, % weight | AMS 3568   | 1.1                        |
| Water Immersion, %                                    | ASTM D570  | 2.84                       |
| Water Absorption, Vacuum Exposure, % weight gain      | ASTM D 1056  | 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 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, g/cm <sup>3</sup>                      | ASTM D 1505      | 1.395            |
| Modulus, MD, psi (kg/cm <sup>2</sup> )          | ASTM D 882       | 500,000 (35,200) |
| Shrinkage, MD, %, (TD)                          | 39 min. at 150°C | 1.2 (0.0)        |
| Tensile Strength, MD, psi (kg/cm <sup>2</sup> ) | ASTM D 882       | 30,000 (2,110)   |
| Ultimate Elongation                             | ASTM D 882       | 150              |
| Yield Strength (F5), psi (kg/cm <sup>2</sup> )  | ASTM D 882       | 15,000 (1,050)   |

#### Notes:

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