

Typical Product Properties

PORON® 92 Extra Soft - Slow Rebound

| PROPERTY | TEST METHOD | VALUE | | | |
|--|--|---|-----------------------|--|--|
| PHYSICAL | | | | | |
| Density, lb. / ft ³ (kg /m ³) | ASTM D 3574-95, Test A | 12 (192) | 15 (240) | | |
| Tolerance, % | | ± 10 | | | |
| Thickness, inches | | 0.155 - 0.425 | 0.125 - 0.500 | | |
| (mm) | | (3.94 - 10.80) | (3.18 - 12.70) | | |
| Tolerance, % | | ± 10 | | | |
| Standard Color (Code) | | Black (04) | | | |
| Compression Force Deflection, psi | 0.2" / min. Strain Rate | 0.25-2.5 | 0.3 - 3.5 | | |
| (kPa) | Force Measured @ 25% Deflection | (1.7 - 17) | (2 - 24) | | |
| Typical psi (kPa) | | 1.4 (10) | 2 (14) | | |
| Hardness, Durometer, Shore "O", | ASTM D 2240-97 | < 3 | < 5 | | |
| Compression Set, % max. | ASTM D 1667-90 | 2 10 5 | | | |
| | Test D @ 73°F (23°C) | | | | |
| | ASTM D 3574-95 | | | | |
| | Test D @ 158°F (70°C) | | | | |
| | ASTM D 3574-95 Test J/Test D | | | | |
| | autoclaved 5 hrs @ 250°F (121°C) | | | | |
| Resilience by Vertical Rebound, % | ASTM D 2632-96 | 4 | | | |
| Dimensional Stability, % max. change | 22 hrs @ 176°F (80°C) in a forced-air oven | ± 3 | ± 5 | | |
| Tensile Strength, Min. psi (kPa), | ASTM D 3574-75 Test E | 12 (83) | 15 (103) | | |
| Typical psi (kPa) | | - | 30 (207) | | |
| Tensile Elongation, % min., | ASTM D 3574-75 Test E | 150 | 120 | | |
| Typical | | - | 206 | | |
| Tear Strength, Min. pli (kN/m), | ASTM D 264-91 Die C | 2 (0.4) | 4 (0.7) | | |
| Typical pli (kN/m) | | - | 5 (0.9) | | |
| ELECTRICAL AND THERMAL | | | | | |
| Dielectric Constant, K' ("DK") | ASTM D 150 measurements at 72°F (22°C) relative humidity 50% for 24 hrs. | - | 1.48 | | |
| Dielectric Strength, volts/mil | ASTM D 149-97a | 42 | 50 | | |
| Dissipation Factor, tan D ("DF") | ASTM D 150-98 | - | 0.04 | | |
| Volume Resistivity, ohm-cm | ASTM D 257-99 | - | 8 x 10 ¹¹ | | |
| Surface Resistivity, ohm/sq. | ASTM D 257-99 | - | 10 x 10 ¹¹ | | |
| Coefficient of Thermal Expansion | | 2.3 - 3.1 x 10 ⁻⁴ in./in./°C | | | |

Page 1 of 2

The information contained in this Data Sheet is intended to assist you in designing with Rogers' High Performance Foam Materials. 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 Rogers' High Performance Foam Materials for each application. The Rogers logo, The world runs better with Rogers, and PORON are licensed trademarks of Rogers Corporation. 2000-2003, 2006, 2008, 2009, 2012 Rogers Corporation, All rights reserved. Printed in U.S.A 0612-PDF, Publication # 17-038

PORON® 92 Extra Soft - Slow Rebound Continued

| PROPERTY | TEST METHOD ASTM D 3574-95, Test A | VALUE | |
|--|---|----------------|---------------|
| Density, lb. / ft ³ (kg /m ³) | | 12 (192) | 15 (240) |
| TEMPERATURE RESISTANCE | | | |
| Recommended Constant Use, max. | SAE J-2236 | 194°F (90°C) | |
| Recommended Intermittent Use, max. | | 250°F (121°C) | |
| Embrittlement | ASTM D 746-98 | -4°F (-20°C) | |
| FLAMMABILITY AND OUTGAS | SING | | |
| Flammability | UL 94HBF (File E20305) (Pass ≥) | .155" (3.94mm) | .118" (3.0mm) |
| | MVSS 302 (Pass ≥) | .155" (3.94mm) | .118" (3.0mm) |
| | CSA Comp HBF (File 188149) (Pass ≥) | .155" (3.94mm) | .118" (3.0mm) |
| Fogging | SAE J-1756 3 hrs @ 212°F (100°C) | Pass | |
| Outgassing, Total Mass Loss (TML) % | ASTM E 595-93 24 hrs @ 257°F (125°C) @ <7x10³ Pa | 0.76 | 1.73 |
| Outgassing, Collected Volatile Condensable Materials (CVCM) % | | 0.04 | 0.14 |
| Outgassing, Water Vapor Regain (WVR) % | | 0.60 | 0.71 |
| ENVIRONMENTAL | | | |
| Gasketing and Sealing | UL JMST2 (Consisting of UL50 and UL508) | - | File MH15464 |
| | CAN/CSA - C22.2 No. 94-M91 | | |
| Water Absorption, High Humidity Exposure, % weight gain, typical | AMS 3568-95 | 2 | |
| Water Absorption, Immersion Testing, % weight gain, typical | ASTM D 570-95 | 38 | 34 |
| Mildew/Bacteria Resistance | ASTM G 21 | Good | |
| Staining | ASTM D 925 | No Stain | |
| Skin Contact Irritation | Primary Skin Irritation Test (FHSA) | Pass | |

These materials are unsupported and should be processed with the knowledge that stretching of die cut parts can occur when material has not been relaxed.

Notes:

- 1. represents testing not available at this time.
- 2. All metric conversions are approximate.
- 3. Additional technical information is available.
- 4. Typical values should not be used for specification limits.

Page 2 of 2