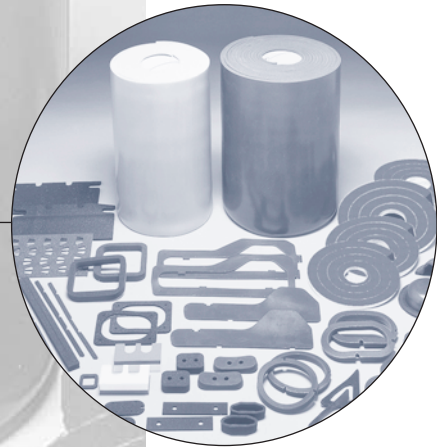


SuperSheet™ Foams

Materials Summary Sheet

11



Offering solutions for a wide range of applications such as...

Automotive seals



Camper gaskets and seals



Marine seals



Weather stripping



Vending machine seals



Refrigerator gaskets



E·A·R™

Aeero Technologies • a 3M company

SuperSheet™ Foams

SuperSheet materials are low-density polyurethane foams featuring excellent water resistance characteristics and physical properties that make them ideal for gasketing and sealing applications.

SuperSheet foams compress with relatively little pressure, allowing their use in lightweight assemblies. With very low compression set, the materials provide an excellent alternative to EPDM seals.

In standard form, SuperSheet foams have a thin water-resistant skin on both upper and lower surfaces. The foams are produced as cast materials in four standard grades. Standard thicknesses range from 3 mm to 15 mm.

SuperSheet foams provide cost-effective gaskets in a variety of markets and applications, including automotive, marine vehicles, RVs,

appliances, cabinetry and small equipment.

- Seal out water and air when compressed 50 to 80 percent
- Resistant to compression set
- Soft, yet strong
- Die cut easily and cleanly
- Available in a variety of thicknesses (Contact us for versions not listed.)

Typical Properties

| Property | SuperSheet H | | | SuperSheet H3 | | | SuperSheet H4 | | | SuperSheet H6 | |
|--|---|---------------|---------------|--|---------------|---------------|--|---------------|---------------|--|---------------|
| | 3 mm | 6 mm | 10 mm | 3.5 mm | 5 mm | 10 mm | 5 mm | 6 mm | 10 mm | 5 mm | 6 mm |
| Density Nominal kg/m ³ (pcf) ASTM D3574 | 61 (3.8) | 54 (3.4) | 51 (3.2) | 64 (4.0) | 61 (3.8) | 58 (3.6) | 59 (3.7) | 58 (3.6) | 56 (3.5) | 61 (3.8) | 56 (3.5) |
| Hardness ASTM D2240 15 sec post impact, Shore OO | 10 | 10 | 10 | 23 | 23 | 23 | 24 | 24 | 24 | 22 | 22 |
| Flammability FMVSS-302 | Meets | | | Meets | | | Meets | | | | |
| Brittleness Temp. C (F) ASTM D746 | -60C (-76F) All Thicknesses | | | -55C (-67F) All Thicknesses | | | -47C (-53F) All Thicknesses | | | -47C (-53F) All Thicknesses | |
| Tensile Strength kPa (psi) ASTM 3574 | 193 (28) | 193 (28) | 179 (26) | 248 (36) | 214 (31) | 221 (32) | 248 (36) | 234 (34) | 241 (35) | 283 (41) | 214 (31) |
| Elongation (%) ASTM D3574 | 208 | 194 | 198 | 114 | 114 | 105 | 104 | 115 | 106 | 101 | 114 |
| Tear Strength kN/m (lb/in) ASTM D624 | 0.95 (5.4) | 0.78 (4.4) | 0.83 (4.7) | 0.69 (3.9) | 0.65 (3.7) | 0.83 (4.7) | 0.86 (4.9) | 0.79 (4.5) | 0.88 (5.0) | 0.85 (4.8) | 0.76 (4.3) |
| Compression Set (% original height) 50% Deflection ASTM D1667 22hr @ 23C (73F) ASTM D3574 22hr @ 70C (158F) | 2.3 9.1 | 2.3 9.1 | 2.3 9.1 | 1.8 6.2 | 1.8 6.2 | 1.8 6.2 | 2.9 7.8 | 2.9 7.8 | 2.9 7.8 | 2.6 8.0 | 2.6 8.0 |
| Water Absorption (% weight gain) ASTM D570 24hr immersion | 5.2 | | | 6.0 | | | 6.9 | | | 4.9 | |
| Sealability Maintain water-tight seal 1 hour minimum 23C (73F) GM6086M | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Compression Load Deflection kPa (psi) ASTM D3574 25% Deflection 50% Deflection | 5.9 (0.85) All Thicknesses 9.4 (1.4) All Thicknesses | | | 12 (1.8) All Thicknesses 19 (2.8) All Thicknesses | | | 16 (2.3) All Thicknesses 35 (5.1) All Thicknesses | | | 15 (2.2) All Thicknesses 26 (3.7) All Thicknesses | |
| RoHS Compliant | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

The data listed in this materials summary are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

