

IPOTEC

Innovation in Polymer Technology

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Expanded Silicone Rubber Extrusions – Physical Properties

| Property | | Typical Value | | | | Test Method |
|--|----------------------------|---------------|-------------|-------------|------------|-------------|
| | | Soft | Medium-Soft | Medium-Firm | Firm | |
| | | SS10 | SS20 | SS30 | SS40 | |
| Density | lbs/cu.ft | 9-19 | 15-25 | 25-32 | 32-40 | ASTM D1056 |
| | (g/cc) | (0.15-0.3) | (0.25-0.4) | (0.4-0.5) | (0.5-0.65) | |
| Compression-Deflection, 25% | psi | 2-5 | 5-9 | 9-13 | 13-17 | ASTM D1056 |
| | (kPa) | (14-34) | (34-63) | (63-91) | (63-91) | |
| Tensile Strength | psi | 80 | 110 | 190 | 250 | ASTM D412 |
| | (kPa) | (550) | (760) | (1310) | (1720) | |
| Elongation | % | 150 | 230 | 215 | 200 | ASTM D412 |
| Water Absorption | % | 3 | 3 | 1 | 1 | ASTM D1056 |
| Compression Set, 22h / 212F(100C) / 50% | % | 7 | 5 | 3 | 2 | ASTM D1056 |
| Brittleness Temperature | oF | -110 | -110 | -110 | -110 | ASTM D746 |
| | (°C) | (-80) | (-80) | (-80) | (-80) | |
| Thermal Conductivity (K) | BTUin/hrft ² oF | 0.35 | 0.5 | 0.6 | .65 | |
| | (W/m ^o K) | (0.06) | (0.09) | (0.11) | (0.11) | |

Unless specifically stated data relates to general-purpose materials. Some properties of special grades may differ. Information provided in this data sheet is indicative and is given in good faith but without warranty, express or implied. Whilst test results are deemed to be reliable, performance of these products is dependent on conditions of use and it is the responsibility of the user to determine suitability for a particular application.