

CONDUCTIVE LID FOAM INSERT (GPL-22C-93-CB, GPL-44C-93-CB)

Technical Datasheet

| PROPERTY | TEST METHOD | VALUE |
|---|---|--|
| PHYSICAL | | |
| Density, lb. / ft ³ (kg / m ³) Tolerance, % | ASTM D 3574-95, Test A | 30 (480) |
| | | ± 10 |
| Thickness, inches | | 0.093 |
| Tolerance, inches | | ± 0.003 |
| Standard Color (Code) | | Black (04) |
| Compression Force Deflection, psi (kPa) Typical psi (kPa) | 0.2" / min. Strain Rate Force Measured @ 25% Deflection | 15 - 45 (103 - 310) |
| | | 32 (221) |
| Hardness, Durometer, Shore "O" | ASTM D 2240-97 | 55 |
| Compression Set, % max. | ASTM D 1667-90 Test D @ 73° F (23° C) | 5 |
| | ASTM D 3574-95 | 10 |
| | Test D @ 158° F (70° C) | - |
| | ASTM D 3574-95 Test J/Test D autoclaved 5 hrs @ 250° F (121° C) | - |
| Dimensional Stability, % max. change | 22 hrs @ 176° F (80° C) in a forced-air oven | - |
| Tensile Strength, Min. psi (kPa), Typical psi (kPa) | ASTM D 3574-75 Test E | - |
| | | - |
| Tensile Elongation, % min., Typical | ASTM D 3574-75 Test E | - |
| | | - |
| Tear Strength, Min. pli (kN/m), Typical pli (kN/m) | ASTM D 264-91 Die C | - |
| | | - |
| ELECTRICAL AND THERMAL | | |
| Dielectric Constant, K' ("DK") | ASTM D 150 measurements at 72° F (22° C) relative humidity 50% for 24 hrs. | 1.63 |
| Dielectric Strength, volts/mil | ASTM D 149-97a | 50 |
| Dissipation Factor, tan D ("DF") | ASTM D 150-98 | 0.05 |
| Volume Resistivity, ohm-cm | ASTM D 257-99 | 2 x 10 ¹² |
| Surface Resistivity, ohm/sq. | ASTM D 257-99 | 7 x 10 ¹² |
| Thermal Conductivity, W/m-C (BTU-in./hr/ft ² -F) | ASTM C 518-98 | 0.090 (0.63) |
| Coefficient of Thermal Expansion | | 2.3 - 3.1 x 10 ⁻⁴ in./in./° C |

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