

Energy Absorbing Foam – Technical Bulletin

This technical bulletin describes general capabilities of Renosol Corporation energy absorbing (ea) polyurethane foam. Results may differ if formulation is modified per customer requirements.

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Renosol's low weight energy absorbing foam provides strength, vibration and shock absorbance, and can be molded in a variety of densities and shapes.

Energy absorbing foam applications

Typical applications include vehicle headliners, pillars and structural panels. Use in vehicle cavities to provide additional crash or force protection to the passenger compartment.

Technical specifications

Specifications met	GMN8351 MS-DB591 WSS-M99P29-B
Density (pcf) ASTM 3575, suffix W, method B, DIN 53420	2.3 – 2.7
Compression strength (psi), 23°C ASTM D1621 @ ambient @ 10% @ 25% @ 50%	50.1 – 74.3 54.4 – 78.9 63.0 – 88.7
Compression strength (psi), -15°C ASTM D1621 @ ambient @ 25% @ 50%	56.8 – 82.3 68.4 – 95.7
Compression strength (psi), 60°C ASTM D1621 @ ambient @ 25% @ 50%	48.7 – 71.4 52.0 – 72.3
Water absorption % ASTM C272, Method B	<3
Thermal stability % linear change at 80oC ASTM D2575, suffix S or DIN 53431	<1
Flammability FMVSS 302	PASS
Fogging J1756	PASS

All technical information and data in this bulletin are believed accurate and reliable; however, we do not guarantee results, freedom from patent infringement, or suitability of this product for any resultant application.