Rigid/Structural Foam – Technical Bulletin

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This technical bulletin describes general capabilities of Renosol Corporation rigid/structural polyurethane foam. Results may differ if formulation is modified per customer requirements.

Molded rigid polyurethane foam provides support and stiffening at a low weight and cost compared to alternate materials.

Structural foam lends body joint rigidity in vehicle applications. It may be used in combination with other materials to lend additional structural support and flexibility, for example, honeycomb substrates, fabric, and glass fiber.

Rigid / structural foam applications

This structural foam provides structural integrity/stiffness and crash management for vehicle cavities, including pillars, joints, underbody cross-car structure, frame rails, engine cradles, and door panels. Because of its light weight and anti-mold properties, structural foam has been used to construct panels for temporary military housing. Rigid polyurethane foam has also been used in wind turbine blades and boat components.

Technical specifications

Parameters	**Typical Properties**
Specifications met	General Motors GM9982296 Chrysler MS-DC-639
Density (pcf)	5 to 40
Compression strength (psi) ASTM D1621 @ ambient	1320
Water absorption % ASTM C272, Method B	0.76
Flammability SAE J369, FMVSS 302	PASS
Fogging GM9305P	PASS