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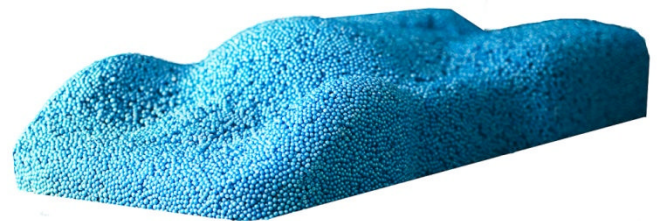
Innovative Tooling Materials for Thermoforming

Overview

The new HYVAC line of fixturing products provides a fast and economical way to hold contoured parts in place during the trimming operation. This porous material may be easily shaped using existing parts, eliminating the need for costly machining of large holding fixtures. Its final structure allows vacuum airflow throughout, providing uniform hold-down during manual or automated trimming.



HYVAC is provided as a simple three-part kit of resin, catalyst and fiber reinforced spheres. The resin and catalyst are mixed, combined with the spheres, and compacted into a formed part. Following cure, the completed part provides a stiff but porous structure that may be installed on an automated router table or manual system. Vacuum air flow through the material holds the part, (and even residual trim) in place during the operation. Once trimming is complete, the vacuum is reduced and the part is removed.



Typical Properties

Property	Value
Color	Blue
Density (lb/ft ³)	12-18 lb/ft ³ [192-288 MPa]
Compressive Strength	125 psi [1 MPa]
Compressive Modulus	11,000 psi [76 MPa]
Service Temperature	240 °F [115 ⁰ C]

Available Forms

HYVAC is supplied in a 0.5 ft³ kit, conveniently separated into two distinct 0.25 ft³ mixtures. (0.25 ft³ is approximately 1.9 gallons/7 liters.)

