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Tooling Technology offers a wide range of high-quality plug-assist materials. These thermoforming essentials are inventoried in various sized rods, sheets and blocks that can be easily cut and machined into shapes ranging from simple to highly complex. Please visit our website for detailed specification sheets, material properties, available sizes and pricing for each type of plug-assist product.

Technical Data Sheet

350° Syntactic Foam

Plug assist thermoforming results in improved material distribution in thermoformed parts. Our 350° product is an epoxy syntactic foam designed specifically for use as plug assist material. This combination of hollow glass microspheres in a polymer matrix, has many unique properties that make it an ideal candidate for fabricating thermoforming plugs and other associated tooling.

- Low Thermal Conductivity and Specific Heat.
- Dimensional Stability with a low Coefficient of Thermal Expansion.
- Excellent Temperature Resistance.
- Lightweight
- Available in Rod, Sheet or Block sizes.

Machining :

Tooling: Cemented carbide or solid carbide with maintained sharp edge.

Cutting Speed: 325 ft/min

Rough Feed Rate: 50 in/min

Finish Feed Rate: 0.75 in/min

Coolant: None or Non-aromatic, water soluble



Typical Properties

Color:	White
Density:	44 lbs/ft ³
Thermal Conductivity:	0.071 BTU/hr-ft ⁰ F
Specific Heat:	0.41 BTU/lb ⁰ F
Coefficient of Thermal Expansion:	21 x 10 ⁻⁶ in/in/ ⁰ F
Compressive Strength :	8300 psi
Compressive Modulus:	320 Ksi
Service Temperature:	350 ⁰ F