

High temperature, thermoforming plug assist material

Syntac[®] HTS (High Temperature Solutions)

Syntac[®] HTS (High Temperature Solutions) is a high-temperature thermoforming plug assist material. It maintains its hardness up to the maximum running temperature, offering a lightweight, durable and cost-effective alternative. Made from high grade epoxy resin and hollow glass microspheres, Syntac[®] HTS is ideal for your high-heat, high strength tooling requirements, providing excellent material uniformity whilst maintaining product quality.

Our advanced range of thermoforming plug assist materials are designed to increase your productivity, reduce downtime and maintain high product quality.



Applications

- Food packaging
- Beverage packaging
- Medical and pharmaceutical packaging

Benefits

Syntac[®] HTS is a high temperature, high performance thermoforming plug assist material offering a wide range of benefits:

- Easy to machine
- High temperature, suitable for use up to 220°C
- Produces high clarity packaging
- Maintains hardness, even at maximum temperature
- Can be polished to achieve an extremely smooth surface finish
- Lightweight alternative
- Available in sheet, bar and cast versions

Technical properties

Syntac® HTS typical properties		
Property	Typical value	Units
Colour	Grey	-
Density	740	kg/m ³
Service Temperature	220	°C
Thermal Conductivity	0.11	W/mK
Coefficient of Thermal Expansion	42	ppm/°C
Compressive Strength	56	MPa
Compressive Modulus	1,480	MPa
Shore Hardness @ 25 °C	70	°D

Product sizes

Sheets		
Length (mm)	Width (mm)	Thickness (mm)
660	600	25
660	600	38
660	600	51
660	600	64
660	600	76
660	600	89
660	600	102
660	600	114
660	600	127
600	305	152
660	600	152

Bars		
Length (mm)	Width (mm)	Thickness (mm)
600	38	38
600	51	51
600	64	64
600	76	76
600	89	89
600	102	102
600	114	114
600	127	127
600	140	140
600	152	152

For custom sizes please contact us for availability

Contact us

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