

High performance, thermoforming plug assist material

Syntac[®] STS (Strong Tough Solutions)

Syntac[®] STS (Strong Tough Solutions) is a tough, robust, high performing thermoforming plug assist material. Made from high grade novel crosslinked polymer and hollow glass microspheres, Syntac[®] STS is wear and abrasion resistant and dimensionally stable, providing high levels of repeatability whilst maintaining product quality, allowing for super-fine detailing with reduced breakage.

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
- Packaging requiring a deeper draw (mold)

Benefits

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

- Easy to machine
- Robust and tough
- Dimensionally stable
- Suitable for use up to 180°C
- Can be polished to achieve an extremely smooth surface finish
- Offers super-fine detailing with reduced breakage
- Supports high levels of repeatability
- Durable, consistent performance
- Produces high clarity packaging
- Available in sheet, bar and cast version
- Suitable for packaging requiring deeper molds
- Wear and abrasion resistant

Technical properties

Syntac® STS typical properties		
Property	Typical value	Units
Colour	Pale Green	-
Density	660	kg/m ³
Service Temperature	180	°C
Thermal Conductivity	0.13	W/mK
Coefficient of Thermal Expansion	35	ppm/°C
Compressive Strength	87	MPa
Compressive Modulus	3,060	MPa
Shore Hardness @ 25 °C	80	°D

Product sizes

Sheets		
Length (mm)	Width (mm)	Thickness (mm)
660	500	25
660	500	38
660	500	51
660	500	64
660	500	76
660	500	89
660	500	102
660	500	114
660	500	127
660	500	150
500	305	150

Bars		
Length (mm)	Width (mm)	Thickness (mm)
500	38	38
500	51	51
500	64	64
500	76	76
500	89	89
500	102	102
500	114	114
500	127	127
500	140	140
500	150	150

For custom sizes please contact us for availability

Contact us

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