ENVII™ HIGH TEMPERATURE

THERMOFORMING PLUG ASSIST MATERIAL

Envii™ High Temperature advanced thermoforming plug assist material is specifically engineered for high temperature applications, maintaining its hardness up to +225 °C. Envii™ High Temperature gives consistent, high-quality results and great material uniformity at high temperatures, making it perfect for plug assist applications where temperature and performance are critical.

APPLICATIONS

Envii™ High Temperature can be used for the following applications:

- Food packaging
- Beverage packaging
- Pharmaceutical and medical packaging

FEATURES & BENEFITS

Envii™ High Temperature material provides reliable, consistent performance.

- Suitable for use up to +225 °C
- Easy to machine
- Consistent, high-quality
- Maintains hardness up to maximum service temperature
- High-performance and reliability
- Produces high-clarity packaging
- Provides excellent material uniformity
- Smooth surface finish achievable with polishing

TECHNICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
COLOUR	Green	-
HARDNESS, SHORE D (+/-5)	76	ISO 868
DENSITY, KG/M³	ca. 720	ISO 1183-1
SERVICE TEMPERATURE, °C	225	ISO 11357
COEFFICIENT OF THERMAL EXPANSION (CTE) °C $10^{-6}K^{-1}$ (+/-5)	39	ISO 11359
COMPRESSIVE STRENGTH, MPA (+/-5)	50	ISO 604
COMPRESSIVE MODULUS, MPA (+/-5)	2,300	
THERMAL CONDUCTIVITY, (CALCULATED)	0.14	

SHEET SIZES

Envii™ High Temperature is available in a range of sheet sizes

(length x width +/- 1mm x depth +/- 0.5mm)

762mm x 608mm x 50mm

762mm x 608mm x 75mm

762mm x 608mm x 100mm

STORAGE OF MATERIAL

The boards must be stored indoors, on a flat dry surface. Temperature variations must be avoided during transportation and storage.

Base Materials is an expert in high-performance syntactic materials for a wide range of industries including automotive, aerospace, foundry, manufacturing, marine, motorsport, rail and subsea.

Customers are at the heart of what we do. Our proven high-quality solutions are engineered to meet your challenging application requirements.

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