



THERMOPLASTIC SYNTACTIC FOAM

➤ OVERVIEW

OptiForm F2X is the **plug assist** material which combines the toughness of engineering **thermoplastics** with the low thermal conductivity of a **syntactic foam**.

Plug assists made from OPTIFORM F2X will resist the chips and dings associated with production abuse while reducing mark-off and sticking of difficult to process polymers.

OptiForm F2X eliminates the machining difficulties of conventional syntactic foams.

This product does not produce dust during machining and finishing of plugs.



➤ TECHNICAL PROPERTIES

Color:	White	
Density (ρ)	43-47 lb/ft ³	700-760 kg/m ³
Thermal Conductivity (k)	0,092 BTU /hr-ft-°F	0.17 W/m ² K
Specific Heat (Cp) per mass	0.43 BTU/(lb·°F)	1.80 kJ/(kg·°C)
Coef. Therm. Expansion (CTE)	33 x 10 ⁻⁶ in/in/°F	66 x 10 ⁻⁶ m/m/°C
Compressive Strength	9,700 psi	67 Mpa
Service Temperature	356°F	180 °C



NO DUST

**MACHINING
CHIPS**



➤ BENEFITS



High Toughness and Durability

With high toughness, machine downtime due to damaged plugs is reduced. Less downtime, lower costs, more consistent quality.



Superb Machinability

No dust collection equipment or respirators are required due to the large, non-abrasive chips. Plugs can be machined over three times faster than syntactic foam due to the easy chip formation.

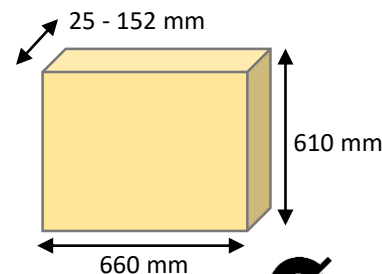
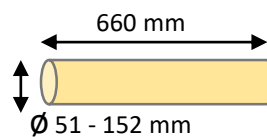
No more complaints from your machinists.



Excellent Temperature Resistance

OptiForm F2X is specially formulated for service up to 180°C with minimal loss in mechanical properties.

➤ STANDARD SIZES



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➤ APPLICATIONS

OptiForm F2X may be used in a wide variety of applications on sheet-fed, rotary, or in-line machines. It may also be used with most commonly thermoformed materials, and has proven effectiveness with **PS, PVC and PET**.

OptiForm F2X is ready to replace epoxy based *Hytac®* or *Syntac®*, to avoid dusty machining!