

## ➤ OVERVIEW

OptiForm B2X is the **plug assist** material which combine the toughness of engineering **thermoplastics** with the low thermal conductivity of a **syntactic foam**.

Plug assists made from **OPTIFORM B2X** will resist the chips and dings associated with production abuse while reducing mark-off and sticking of difficult to process polymers.

*OptiForm B2X give you the **best smooth finish surface**.  
**This product does not produce dust during machining and finishing of plugs.***



## ➤ TECHNICAL PROPERTIES

| Color:                       | Blue                       |                             |
|------------------------------|----------------------------|-----------------------------|
| Density (ρ)                  | 44 - 48 lb/ft <sup>3</sup> | 710 - 770 kg/m <sup>3</sup> |
| Thermal Conductivity (k)     | 0,086 BTU /hr-ft-°F        | 0.17 W/m <sup>2</sup> 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         | 60 x 10-6 m/m/°C            |
| Compressive Strength         | 9,700 psi                  | 67 Mpa                      |
| Compressive Modulus          | 298 Ksi                    | 2.05 Gpa                    |
| Service Temperature          | 356°F                      | 180 °C                      |



**TYPICAL  
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 B2X is specially formulated for service up to 180°C with minimal loss in mechanical properties.

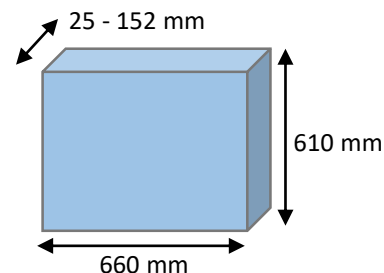
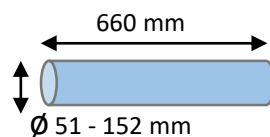
## ➤ APPLICATIONS

OptiForm B2X 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 quite effective with polypropylene and other polyolefins.

**With PP & PET we will give better productivity than any other epoxy syntactic.**

OptiForm B2X is ready to replace other thermoplastic syntactic materials such as Hytac® B1X.

## ➤ STANDARD SIZES



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