

# Ensinger FORMPLAST® 2000

Polyurethane

Ensinger Inc.

## Message:

FORMPLAST™ 2000 is a thermoplastic composite material with superior properties for use in thermoforming plug assist applications. FORMPLAST™ 2000 has a micro-porosity of 15-19 compared to 20-30 for Syntactic Foam. FORMPLAST™ 2000 eliminates many of the problems associated with Syntactic Foam, machined aluminum or wood to become the new material of choice for plug assists.

FORMPLAST® 2000 is extremely tough, dimensionally stable, and chemically resistant making it an ideal plug assist material in the thermoforming or vacuumforming process of various plastics such as: PS, PETG, HDPE, PET, ABS, PVC, HIPS, PE, K (Crystal Styrene), PP and Vinyl.

General Information			
Features	Good dimensional stability Impact resistance, high Machinable Good stability Good chemical resistance Good toughness		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (23°C)	1790	MPa	ASTM D638
Tensile Strength (Yield)	68.9	MPa	ASTM D638
Flexural Modulus - Tangent (23°C)	2210	MPa	ASTM D790
Flexural Strength (23°C)	89.6	MPa	ASTM D790
Compressive Strength (23°C)	82.7	MPa	ASTM D695
Shear Strength (23°C)	68.9	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	116	°C	ASTM D648
Vicat Softening Temperature	144	°C	
CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696
Specific Heat	1090	J/kg/°C	
Thermal Conductivity	0.32	W/m/K	
Additional Information			

Data based on injection molded samples.

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Recommended distributors for this material

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