

FORMPLAST® 2000 - Stock Shapes

Chemical Designation

PU (Polyurethane)

Colour

light blue

Density

1.2 g/cm³

Main features

- excellent impact strength
- high toughness
- easily machinable to tight tolerance
- very good mechanical strength

Target Industries

- packaging and paper machinery

Mechanical properties	condition	value		test method	comment
Modulus of elasticity (tensile test)	1% Sec, @ 73 °F	260,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	10,000	psi	ASTM D 638	
Flexural strength	@ 73 °F	13,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	Tangent @ 73 °F	320,000	psi	ASTM D 790	
Compression strength	@ 73 °F	12,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	7.0	ft-lbs/in	ASTM D 256	
Thermal properties	condition	value		test method	comment
Vicat softening point		291	°F	-	1) (1) publicly sourced data
Deflection temperature	@264 psi, 1/4	241	°F	ASTM D 648	2) (2) publicly sourced data
Service temperature	Long Term	280	°F	-	3) (3) injection molded data
Thermal expansion (CLTE)		3.7*10 ⁻⁵	in/in/°F	ASTM D 696	4) (4) publicly sourced data
Specific heat		0.26	BTU/lb-F°	-	5) (5) publicly sourced data
Thermal conductivity		0.322	W/(K*m)	-	6) (6) publicly sourced data

→ Resin specification:
Ensinger Internal Specification
Shapes specification:
NONE

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