

# Task® 3

Polyurethane  
Smooth-On, Inc

Message:

TASK® 2 & TASK® 3 low viscosity, high performance casting resins offer superior physical and performance properties compared to our popular Smooth-Cast® Series of general purpose casting resins. Vacuum degassing is not necessary and they offer the convenience of a 1A:1B by volume (120A:100B by weight) mix ratio. The difference between TASK® 2 & TASK® 3 is the pot life and demold time.

TASK® 2 & TASK® 3 are white. They have high tensile and flexural strength, as well as high flexural modulus. These plastics were formulated for a variety of industrial applications including pattern making and making prototype models. These resins are designed for casting in thicknesses up to ½" (1.27 cm). TASK® Plastics are moderately priced and are available in trial kits, one-gallon, five-gallon, 55-gallon drum and totes.

General Information			
Features	High Tensile Strength		
	Low Viscosity		
Uses	Modeling Material		
Appearance	White		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D1475
Specific Volume	0.892	cm³/g	ASTM D1475
	120A:100B by weight		
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	0.25	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength	45.9	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	1990	MPa	ASTM D790
Flexural Strength	65.5	MPa	ASTM D790
Compressive Modulus	538	MPa	ASTM D695
Compressive Strength	57.2	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	56.7	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	20	min	ASTM D2471
Thermoset Mix Viscosity	150	cP	ASTM D2393

Demold Time <sup>1</sup> (23°C)	90	min
NOTE		
1.	Cure Time	

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Recommended distributors for this material


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