

Task® 4

Polyurethane
Smooth-On, Inc

Message:

TASK® 4 is a unique polyurethane casting resin that is very strong when cast in Ultra-Thin sections ranging from 0.03" to 0.50"(0.075cm to 1.27cm). TASK® 4 has a very low mixed viscosity, ensuring flawless pick-up of even the finest detail. Cured plastic exhibits very low shrinkage which is why this plastic has become a favorite of prototype and design professionals throughout the world. Pot life is 20 minutes and cure time is 16 hours at 73°F/23°C. Vibrant colors and color effects are possible by adding SO-Strong® color tints. Fully cured models made from TASK® 4 are tough, durable, machinable and paintable. They resist moisture and mild solvents. Applications for TASK® 4 include making prototype and architectural models, model toys, durable miniatures, ultra-thin mechanical parts and special effect props.

General Information			
Features	Durable		
	Good Colorability		
	Good Toughness		
	High Strength		
	Low Shrinkage		
	Low Viscosity		
	Machinable		
	Moisture Resistant		
	Paintable		
	Solvent Resistant		
Uses	Modeling Material		
	Thin-walled Parts		
	Toys		
Appearance	Ivory		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D1475
Specific Volume	0.863	cm³/g	ASTM D1475
Mixing Ratio	100A:100B by weight		
Molding Shrinkage - Flow	0.35	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	896	MPa	ASTM D638
Tensile Strength (Break)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	1410	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790

Compressive Modulus	517	MPa	ASTM D695
Compressive Strength	51.0	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	43.3	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	20	min	ASTM D2471
Thermoset Mix Viscosity	250	cP	ASTM D2393
Demold Time ¹ (23°C)	960	min	
NOTE			

1. Cure Time

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Recommended distributors for this material

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