

Task® 5

Polyurethane
Smooth-On, Inc

Message:

TASK® 5 & TASK® 6 low cost, high performance casting resins yield castings that are tan and virtually bubble free. These 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 or weight mix ratio. The differences between TASK®5 and TASK®6 are the pot life and demold time. TASK® 5 & TASK® 6 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).

General Information			
Uses	Modeling Material		
	Patterns		
Appearance	Tan		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm³	ASTM D1475
Specific Volume	0.910	cm³/g	ASTM D1475
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	0.70	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ASTM D638
Tensile Strength (Break)	31.2	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	1490	MPa	ASTM D790
Flexural Strength	44.7	MPa	ASTM D790
Compressive Modulus	572	MPa	ASTM D695
Compressive Strength	46.2	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.8	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Pot Life	3.0	min	ASTM D2471
Thermoset Mix Viscosity	600	cP	ASTM D2393
Demold Time	15	min	

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