

Task® 18

Polyurethane
Smooth-On, Inc

Message:

TASK® 18 is a relatively low viscosity aluminum filled urethane casting resin that was developed specifically for making short run vacuum forming molds. When Parts A and B are mixed in proper proportion, TASK® 18 cures overnight at room temperature with negligible shrinkage to a very hard plastic that has a very high compressive and flexural strength. Cured TASK® 18 can be polished, machined, drilled, painted, etc. TASK® 18 is also used to make industrial production parts, prototype parts and tracing patterns.
(Formerly C-1508)

General Information			
Filler / Reinforcement	Aluminum		
Features	Good Compressive Strength		
	Low Shrinkage		
	Low Viscosity		
	Machinable		
	Paintable		
Uses	Patterns		
	Prototyping		
Appearance	Pewter		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D1475
Specific Volume	0.636	cm ³ /g	ASTM D1475
Mixing Ratio	26A:100B by weight		
Molding Shrinkage - Flow	0.060	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3540	MPa	ASTM D638
Tensile Strength (Break)	22.4	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	593	MPa	ASTM D790
Flexural Strength	73.8	MPa	ASTM D790
Compressive Modulus	671	MPa	ASTM D695
Compressive Strength	58.1	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method

Pot Life (23°C)	20	min	ASTM D2471
Thermoset Mix Viscosity	4400	cP	ASTM D2393
Demold Time ¹ (23°C)	960	min	

NOTE

1. Cure Time

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

