# Task® 7 - Flame Out®

### Polyurethane

Smooth-On, Inc

#### Message:

Flame Out<sup>®</sup> is a low viscosity, fast set casting resin that meets UL 94 V-O requirements for flame resistance. It does not contain mercury, TDI or MOCA. Mix ratio is 1A:1B by volume. Pot life is 2.5 min. and demold time is 10 min. at 73°F / 23°C (depending on mass).

Fully cured Flame Out<sup>®</sup> material is tough, durable, machinable and paintable. It has much higher physical and performance properties than any other flame rated urethane available anywhere. Vibrant colors and color effects are possible by adding SO-Strong<sup>®</sup> color tints. Applications for Flame Out<sup>®</sup> include making flame resistant prototype and architectural models, model toys, theme park and stage elements, durable miniatures and special effect props. Material can also be used for potting and encapsulation applications.

General Information					
Features	Durable				
	Flame Retardant				
	Good Colorability				
	Good Toughness				
	Low Viscosity				
	Machinable				
	Paintable				
Uses	Decorative Parts				
	Modeling Material				
	Prototyping				
	Toys				
Annon 20	White				
Appearance					
Processing Method	Casting				
	Encapsulating				
	Potting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.20	g/cm³	ASTM D1475		
Specific Volume	0.835	cm³/g	ASTM D1475		
Mixing Ratio	1A:1B by volume				
Molding Shrinkage - Flow	1.1	%	ASTM D2566		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	73		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	1040	MPa	ASTM D638		
Tensile Strength (Break)	23.4	MPa	ASTM D638		
Tensile Elongation (Break)	15	%	ASTM D638		
Flexural Modulus	1030	MPa	ASTM D790		

Flexural Strength	37.6	MPa	ASTM D790
Compressive Modulus	397	MPa	ASTM D695
Compressive Strength	35.4	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	55.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Pot Life (23°C)	Nominal Value 2.5	Unit min	Test Method ASTM D2471
Pot Life (23°C)	2.5	min	ASTM D2471
Pot Life (23°C) Thermoset Mix Viscosity	2.5 200	min cP	ASTM D2471

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#### Recommended distributors for this material

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