

Task® 9 Colormatch

Polyurethane
Smooth-On, Inc

Message:

TASK® 9 Colormatch is a high performance urethane casting resin that features very high compressive strength and tensile strength. TASK® 9 is clear amber, which makes this plastic very easy to color using SO-Strong® or IGNITE® colorants. With a mix ratio of 1A:1B by volume, TASK® 9 is easy to use and a low mixed viscosity (300 cps) ensures minimal bubble entrapment. Pot life is 7 minutes and cure time is about 60 minutes (depending on mass). TASK® 9 is ideal for making impact resistant tooling, color accurate prototypes / models as well as durable reproductions.

General Information			
Features	Good Colorability		
	Good Compressive Strength		
	High Tensile Strength		
	Low Viscosity		
Uses	Modeling Material		
	Prototyping		
	Tooling		
Appearance	Clear Amber		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D1475
Specific Volume	0.878	cm³/g	ASTM D1475
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow (23°C, 7 days)	0.90	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength (Break)	53.8	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	81.7	MPa	ASTM D790
Compressive Modulus	676	MPa	ASTM D695
Compressive Strength	75.8	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
Pot Life (23°C)	7.0	min	ASTM D2471

Thermoset Mix Viscosity	300	cP	ASTM D2393
Demold Time ¹ (23°C)	60	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

