Smooth-Cast® 380

Polyurethane

Smooth-On, Inc

Message:

Smooth-Cast® 380 is a filled, high density casting resin formulated for a variety of tooling applications. This no-odor resin features a convenient 1A:1B mix ratio by volume, a 6 minute pot-life and cure time of about 60 minutes depending on mass and temperature. Low viscosity ensures minimal bubble entrapment and long term shrinkage of cured resin is very low. Cured material is very strong can be machined, drilled, sanded, etc. Color can be added with SO-Strong® color tints.

General Information					
Filler / Reinforcement	Filler				
Features	Good Strength				
	High Density				
	Low Shrinkage				
	Low to No Odor				
	Low Viscosity				
	Machinable				
Appearance	Tan				
Processing Method	Casting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.74	g/cm³	ASTM D1475		
Specific Volume	0.574	cm³/g	ASTM D1475		
Molding Shrinkage - Flow	0.25	%	ASTM D2566		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	82		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	3380	MPa	ASTM D638		
Tensile Strength (Break)	24.5	МРа	ASTM D638		
Tensile Elongation (Break)	1.4	%	ASTM D638		
Flexural Modulus	2170	MPa	ASTM D790		
Flexural Strength	33.6	MPa	ASTM D790		
Compressive Modulus	869	MPa	ASTM D695		
Compressive Strength	54.2	MPa	ASTM D695		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (1.8					
MPa, Unannealed)	51.7	°C	ASTM D648		
Thermoset	Nominal Value	Unit	Test Method		
Thermoset Components					
Part A	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0				
Part B	Mix Ratio by Weight: 1.0, Mix Ratio by Volume: 1.0				

Pot Life	6.0	min	ASTM D2471
Thermoset Mix Viscosity	1140	сР	ASTM D2393
Demold Time	60	min	

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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

