

ReoFlex® 50

Polyurethane

Smooth-On, Inc

Message:

ReoFlex® urethane rubbers offer superior physical and performance properties for production casting of wax, plasters, and resins. ReoFlex® urethanes are available in 20A, 30A, 40A, 50A and 60A Shore hardnesses and feature convenient one-to-one by volume mix ratios. Vacuum degassing is not necessary and ReoFlex® rubbers cure with negligible shrinkage to a durable rubber that will last in production. ReoFlex® "Wet" rubbers will shrink somewhat over time vs. "Dry" formulations.

ReoFlex® mold rubbers are used for a variety of applications including making molds to reproduce sculpture and architectural elements, as well as for making special effects, toys and prototypes. Vibrant colors can be achieved by adding So-Strong® Color Tints, available from Smooth-On.

Casting Concrete? Look into the VytaFlex® series of urethane mold rubbers. VytaFlex® urethanes were formulated specifically for casting concrete / pigmented concrete and feature Smooth-On's exclusive 'V-Polymer®' technology.

General Information			
Features	Durable		
	Good Colorability		
	Low Shrinkage		
Uses	Modeling Material		
	Prototyping		
	Toys		
Appearance	Off-White		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D1475
Specific Volume	0.990	cm ³ /g	
	1:1 by weight		
Mixing Ratio	1:1 by volume		
Molding Shrinkage - Flow	< 0.010	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	1.05	MPa	ASTM D412
Tensile Strength (Break)	4.00	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412
Tear Strength ¹	21.0	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life	50	min	
Thermoset Mix Viscosity	2000	cP	ASTM D2393

Demold Time	960	min
NOTE		
1.	Die C	

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