

# Vytaflex® 40

Polyurethane  
Smooth-On, Inc

Message:

Using Smooth-On's exclusive "V-Polymer®" technology, VytaFlex® urethane rubbers offer superior physical and performance properties for casting concrete. VytaFlex® urethanes are available in 10A, 20A, 30A, 40A, 50A and 60A Shore hardness's and feature convenient one-to-one by volume mix ratios.

Vacuum degassing is not necessary and VytaFlex® rubbers cure with negligible shrinkage to a durable rubber that will last in production.

VytaFlex® mold rubbers work especially well for casting pigmented / colored concrete. Molds made with VytaFlex® Series urethanes will render accurate and uniform colored castings.

General Information			
Features	Durable		
	Low Shrinkage		
Uses	Modeling Material		
Appearance	Off-White		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm³	ASTM D1475
Specific Volume	0.972	cm³/g	
	1:1 by weight		
Mixing Ratio	1:1 by volume		
Molding Shrinkage - Flow	< 0.10	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.689	MPa	ASTM D412
Tensile Strength (Break)	3.60	MPa	ASTM D412
Tensile Elongation (Break)	660	%	ASTM D412
Tear Strength <sup>1</sup>	14.4	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life	30	min	
Thermoset Mix Viscosity	2000	cP	ASTM D2393
Demold Time	960	min	
NOTE			
1.	Die C		

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