

Vytaflex® 60

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
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Uses	Modeling Material
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Appearance	Off-White
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Forms	Liquid
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Processing Method	Casting
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Physical

Nominal Value	Unit	Test Method
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Specific Gravity	1.04	g/cm ³	ASTM D1475
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Specific Volume	0.961	cm ³ /g	
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Mixing Ratio	1:1 by weight		
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Mixing Ratio	1:1 by volume		
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Molding Shrinkage - Flow	< 0.10	%	ASTM D955
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Hardness

Nominal Value	Unit	Test Method
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Durometer Hardness (Shore A)	60		ASTM D2240
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Elastomers

Nominal Value	Unit	Test Method
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Tensile Stress (100% Strain)	2.07	MPa	ASTM D412
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Tensile Strength (Break)	6.07	MPa	ASTM D412
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Tensile Elongation (Break)	480	%	ASTM D412
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Tear Strength ¹	23.8	kN/m	ASTM D624
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Thermoset

Nominal Value	Unit	Test Method
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Pot Life	60	min	
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Thermoset Mix Viscosity	2000	cP	ASTM D2393
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Demold Time	960	min	
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NOTE

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