Clear-Flex® 50

Polyurethane

Smooth-On, Inc

Message:

Clear Flex® 50 and Clear Flex® 95 are water white clear urethane liquid rubber compounds designed for applications that require absolute clarity and resistance to sunlight. Low viscosity ensures easy mixing and pouring. Clear Flex® 50 and 95 cure at room temperature with negligible shrinkage. Cured castings are clear, flexible and UV Resistant. Vibrant colors and color effects are achieved by adding pigments. Applications include making clear-cut molds, model reproductions, decorative cast pieces, special effects, prototype parts.

General Information					
Features	Good Colorability				
	Good Flexibility				
	Good UV Resistance				
	High Clarity				
	Low Shrinkage				
	Low Viscosity				
	Sunlight Resistant				
Uses	Decorative Parts				
	Modeling Material				
	Prototyping				
Appearance	Clear/Transparent				
Forms	Liquid				
Processing Method	Casting				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.04	g/cm³	ASTM D1475		
Specific Volume	0.968	cm³/g			
Cure Time	16.0	hr			
Molding Shrinkage - Flow	0.15	%	ASTM D955		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A, 23°C)	50		ASTM D2240		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Strength (Break, 23°C)	1.72	MPa	ASTM D412		
Tensile Elongation (Break, 23°C)	500	%	ASTM D412		
Tear Strength ¹ (23°C)	4.38	kN/m	ASTM D624		
Optical	Nominal Value				
Refractive Index					
2	1.486				
3	1.488				
Thermoset	Nominal Value	Unit	Test Method		

Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 2.0		
Pot Life	25	min	ASTM D2471
Thermoset Mix Viscosity	250	сР	ASTM D2393
NOTE			
1.	Die C		
2.	25°C		
3.	20°C		

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Recommended distributors for this material

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