Shell Shock® Slow

Polyurethane

Smooth-On, Inc

Message:

Shell Shock® FAST and Shell Shock® SLOW are thixotropic plastics that self thicken when mixed and can be brushed onto a variety of surfaces or into rubber molds. When Parts A and B are mixed in proper proportion (1A:4B by volume or 1A:5B by weight), material cures at room temperature with virtually no shrinkage to a hard, durable plastic that exhibits good compressive and flexural strength. Fully cured castings are rigid and can be sanded, primed and painted. Color effects are possible by adding SO-Strong Color Tints.
Shell Shock® plastics are ideal for making fast, lightweight rigid molds for creating silicone appliances and effects (use as a replacement for ‘stone molds'). You can also brush a "gel coat" into a rubber mold and back it up with rigid foam, creating a highly detailed lightweight casting. These products can also be brushed onto styrofoam (polystyrol) as an impact resistant coating that can be sanded, primed and painted (minimum 3 coats recommended). Shell Shock® plastics can also be used to make rigid support shells for brush on rubber molds.

General Information			
Features	Durable		
	Good Compressive Strength		
	Good Impact Resistance		
	High Hardness		
	High Rigidity		
	Low Shrinkage		
	Paintable		
	Thixotropic		
Uses	Coating Applications		
	Modeling Material		
Appearance	Beige		
Processing Method	Casting		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.60	g/cm³	ASTM D1475
Specific Volume	0.625	cm³/g	ASTM D1475
	1A:5B by weight		
Mixing Ratio	1A:4B by volume		
Molding Shrinkage - Flow	0.060	%	ASTM D2566
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3000	MPa	ASTM D638
Tensile Strength	21.4	MPa	ASTM D638
Tensile Elongation (Break)	0.40	%	ASTM D638

Flexural Modulus	6760	MPa	ASTM D790
Flexural Strength	49.3	MPa	ASTM D790
Compressive Modulus	3450	MPa	ASTM D695
Compressive Strength	62.1	MPa	ASTM D695
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	57.2	°C	ASTM D648
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Pot Life (23°C)	8.0	min	ASTM D2471
Thermoset Mix Viscosity	3000	cP	ASTM D2393
Demold Time (23°C)	300	min	

Recommended distributors for this material

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