

Plasti-Paste® II

Polyurethane
Smooth-On, Inc

Message:

New Plasti-Paste® II is a two component fiber-filled resin that is designed for vertical surface application. This no-odor formulation is an improved version of our original Plasti-Paste® formula, and the cured product is different in the following ways: 1. Plasti-Paste II is now phthalate free. 2. Cured plastic can be painted (original Plasti Paste® can not) and 3. It is harder, more rigid with better heat resistance. Part A is a liquid and Part B is a paste. New Mix Ratio is 1A: 2B by volume (62A:100B by weight). Pot life is 10 minutes at room temperature depending on mass. Demold time (can be handled) is about 90 minutes at room temperature depending on mass. Full cure; 24 hours at room temperature. Cure time can be accelerated by applying heat.

Mixed material holds a vertical surface without sagging and cures to a strong, durable and lightweight plastic. Liquid material can be pigmented with So-Strong® color tints from Smooth-On. This plastic can be used for creating themed environments or special effects, used as a "mother mold" material to reinforce rubber molds and a variety of other applications. This plastic is also a powerful adhesive and can be used as a repair material for a variety of industrial applications. Cured plastic can be sanded, machined and painted with acrylic enamel paints.

General Information			
Filler / Reinforcement	Filler		
Features	Durable		
	Good Adhesion		
	Good Colorability		
	Good Strength		
	High Hardness		
	High Heat Resistance		
	High Rigidity		
	Low to No Odor		
	Machinable		
	Non-Phthalate Plasticizer		
Uses	Paintable		
	Industrial Applications		
	Modeling Material		
Appearance	Repairing Material		
	Off-White		
	Casting		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.998	g/cm³	ASTM D1475
Specific Volume	1.00	cm³/g	ASTM D1475
Viscosity	Paste		ASTM D2393
	62A:100B by weight		
Mixing Ratio	1A:2B by volume		

Molding Shrinkage - Flow	0.50	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1620	MPa	ASTM D638
Tensile Strength (Break)	14.8	MPa	ASTM D638
Tensile Elongation (Break)	1.1	%	ASTM D638
Flexural Modulus	1400	MPa	ASTM D790
Flexural Strength	26.5	MPa	ASTM D790
Compressive Modulus	432	MPa	ASTM D695
Compressive Strength	34.3	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	10	min	ASTM D2471
Demold Time (23°C)	90	min	

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Recommended distributors for this material

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