

PMC® 121-50

Polyurethane
Smooth-On, Inc

Message:

The PMC® -121 Series urethane rubbers feature convenient one-to-one by volume mix ratios. PMC® -121/30 Dry and PMC® -121/30 Wet are exceptionally strong and abrasion resistant for soft urethane mold rubbers. Pick the one best suited for your application. The dry version does not exude oil and can be used for casting waxes, Smooth-On liquid plastics, gypsum plasters and other materials. The wet version exudes oil that aids in demolding hard plasters and concrete.

PMC® -121/50 is a "wet-only" mold rubber that is long lasting and durable when used in a variety of applications including reproduction of ornamental plaster, precast concrete and ceramic case molds. Note: "wet" rubber has a higher net shrinkage value vs. "dry" rubber.

PMC® -121 Series mold rubbers are easy to mix and pour and are exceptionally strong. They are suited for a variety of applications including making molds to reproduce sculpture and architectural elements, as well as for making special effects, toys and prototypes. These rubbers will meet the stringent demands of production casting of wax, plasters, concrete, resins and epoxies. Vibrant colors can be achieved by adding So-Strong® Color Tints, available from Smooth-On.

General Information			
Features	Good Abrasion Resistance		
	Good Colorability		
	Good Strength		
Uses	Modeling Material		
	Prototyping		
	Toys		
Appearance	Clear Amber		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D1475
Specific Volume	0.965	cm ³ /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)	50		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.565	MPa	ASTM D412
Tensile Strength (Break)	2.41	MPa	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Tear Strength ¹	14.9	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method
Pot Life	30	min	

Thermoset Mix Viscosity	1400	cP	ASTM D2393
Demold Time	960	min	
NOTE			
1.	Die C		

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