

Feather Lite® Resin

Polyurethane

Smooth-On, Inc

Message:

Feather Lite® is a heavily filled low-density urethane casting resin. Cured plastic is lightweight (it floats in water!) and has a much lower density than other casting resins. Feather Lite® features a convenient 1A:1B by volume mix ratio and mixes easily (pre-mixing of parts A & B is necessary). Cured plastic is strong and can be carved, machined, drilled, sanded, etc. Feather Lite® can be pigmented with SO-Strong® color tints prior to casting and finished castings can be painted. And because this product is low-density, it yields more plastic per pound/kg. than other casting resins, the cost per casting is low. Feather Lite® can be used for a variety of art or industrial design related applications including reproducing sculpture, making fishing lures, prototype model making, casting doll heads and figures, etc.

General Information			
Filler / Reinforcement	Filler		
Features	Good Colorability		
	High Strength		
	Low Density		
	Machinable		
Uses	Fishing Applications		
	Modeling Material		
Appearance	Beige		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.668	g/cm ³	ASTM D1475
Specific Volume	1.49	cm ³ /g	ASTM D1475
Mixing Ratio	1A:1B by volume or weight		
Molding Shrinkage - Flow	0.30	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1080	MPa	ASTM D638
Tensile Strength (Break)	14.9	MPa	ASTM D638
Tensile Elongation (Break)	1.6	%	ASTM D638
Flexural Modulus	1130	MPa	ASTM D790
Flexural Strength	23.7	MPa	ASTM D790
Compressive Modulus	370	MPa	ASTM D695
Compressive Strength	21.2	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method

Pot Life	8.5	min	
Thermoset Mix Viscosity	410	cP	ASTM D2393
Demold Time	120	min	

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Recommended distributors for this material

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