

Smooth-Cast® 45D

Polyurethane
Smooth-On, Inc

Message:

The Smooth-Cast® Semi-Rigid line of low-cost semi-rigid urethane casting resins cure quickly to semi-rigid plastics that offer excellent impact resistance. These plastics are easy-to-use (mix ratio is 1A:1B by volume) and have low viscosities for minimal bubble entrapment. Vibrant colors are possible by adding SO-Strong® color tints or Ignite® color pigments. These semi-rigid plastics will really take a beating and offer exceptional abrasion resistance. They are good for making high-impact resistance tools, prototypes, abrasion resistant parts, foundry patterns, roller facings, vibration pads, fast concrete stamping pads, etc. Smooth-Cast® 65D (Formerly Smooth-Cast® ROTO) has a unique gradual cure profile that makes it ideal for rotational casting applications.

General Information			
Features	Good Abrasion Resistance		
	Good Colorability		
	High Impact Resistance		
	Low Viscosity		
	Semi Rigid		
Uses	Molds/Dies/Tools		
Appearance	Light Brown		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D792
Specific Volume	0.925	cm³/g	
	115A:100B by weight		
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	1.0	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10.3	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Thermoset	Nominal Value	Unit	Test Method
Pot Life (23°C)	5.0	min	ASTM D2471
Thermoset Mix Viscosity	500	cP	ASTM D2393
Demold Time ¹ (23°C)	30	min	
NOTE			
1.	Cure Time		

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