Smooth-Cast® 60D

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	1.05	g/cm³	ASTM D792
Specific Volume	0.954	cm³/g	
	115A:100B by weight		
Mixing Ratio	1A:1B by volume		
Molding Shrinkage - Flow	1.5	%	ASTM D2566
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	15.2	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Pot Life (23°C)	5.0	min	ASTM D2471
Thermoset Mix Viscosity	1500	cP	ASTM D2393
Demold Time [1] (23°C)	30	min	
NOTE			
1.	Cure Time		

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