

Smooth-On TASK 16®

Polyurethane

Smooth-On, Inc

Message:

TASK® 16 is a low odor, fast-setting Shore 80A/30D urethane that offers very high tear strength, impact resistance and wear resistance. TASK® 16 is phthalate free, mercury free and MOCA free. Mixed one part A to two parts B by weight, TASK® 16 pours easily. Working time is 6 minutes and handling time is 90 minutes at room temperature. Cured rubber has exceptional performance characteristics and dimensional stability. TASK® 16 can be colored with SO-Strong® or Ignite® colorants.

TASK® 16 is suitable for making fast mechanical parts, gaskets, wheels and pulleys, impact resistant props, and archival master models. It is also used to make fast, wear resistant rubber molds for casting concrete or concrete stamping pads. TASK® 16 is also an excellent choice for rotocasting to create hollow semi-rigid castings.

(formerly Flex Urethane 100-184)

General Information			
Additive	Plasticizer		
Features	Fast Cure		
	Good Colorability		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Tear Strength		
	Good Wear Resistance		
	Low to No Odor		
	Non-Phthalate Plasticizer		
Uses	Gaskets		
	Modeling Material		
	Molds/Dies/Tools		
	Pulleys		
	Wheels		
Appearance	Yellow		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm³	ASTM D1475
Specific Volume	0.926	cm³/g	
Cure Time - Full (23°C)	1.0	day	
Handle Time (23°C)	1.5	hr	
Molding Shrinkage - Flow	2.5	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	80		
Shore D	30		

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.90	MPa	ASTM D412
Tensile Strength (Yield)	15.6	MPa	ASTM D412
Tensile Elongation (Break)	230	%	ASTM D412
Tear Strength ¹	34.5	kN/m	ASTM D624
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	4.59		ASTM D150
Dissipation Factor (1 MHz)	0.064		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Pot Life (23°C)	6.0	min	ASTM D2471
Thermoset Mix Viscosity	1400	cP	ASTM D2393
Post Cure Time (66°C)	4.0 to 8.0	hr	
NOTE			
1.	Die C		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

