

Dragon-Skin® 30

Silicone

Smooth-On, Inc

Message:

Dragon Skin® silicones are high performance platinum cure liquid silicone compounds that are used for a variety of applications ranging from creating skin effects and other movie special effects to making production molds for casting a variety of materials. Because of the superior physical properties and flexibility of Dragon Skin® rubbers, they are also used for medical prosthetics and cushioning applications. Dragon Skin® rubbers are also used for a variety of industrial applications and have a service temperature range of a constant -70°F to +400°F (-21°C to + 205°C).

Great for Making Molds for a Variety of Applications - Available in Shore 10A, 20A and 30A, Dragon Skin® silicones can be used to make exceptionally strong and tear resistant molds for casting plaster, wax, concrete, resins and other materials.

Time Tested, Versatile Special Effects Material - Soft, super-strong and stretchy, Dragon Skin® 10 (Fast, Medium and Slow speeds) is used around the world to make spectacular skin and creature effects. An infinite number of color effects can be achieved by adding Silc Pig® silicone pigments or Cast Magic® effects powders. Cured rubber can also be painted with the Psycho Paint® system.

Easy To Use - Dragon Skin® silicones are mixed 1A:1B by weight or volume. Liquid rubber can be thinned with Silicone Thinner® or thickened with THI-VEX® II. Rubber cures at room temperature (73°F/23°C) with negligible shrinkage. Vacuum degassing is recommended to minimize air bubbles in cured rubber.

General Information			
Features	Good Flexibility		
	Good Strength		
	Good Stretchability		
	Good Tear Strength		
	Low Shrinkage		
	Paintable		
	Soft		
Uses	Modeling Material		
	Prosthetics		
Appearance	Translucent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D1475
Specific Volume	0.928	cm ³ /g	ASTM D1475
Mixing Ratio	1A:1B by volume		
Operating Temperature	-54 to 232	°C	
Molding Shrinkage - Flow	< 0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	30		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	0.593	MPa	ASTM D412
Tensile Strength (Break)	3.45	MPa	ASTM D412
Tensile Elongation (Break)	360	%	ASTM D412

Tear Strength ¹	18.9	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	> 14	kV/mm	ASTM D149
Thermoset	Nominal Value	Unit	Test Method
Pot Life	45	min	ASTM D2471
Thermoset Mix Viscosity	30000	cP	ASTM D2393
Demold Time	960	min	
NOTE			

1. Die B

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