6417 (TRANSLUCENT SILICONE RUBBER)

6417 is a translucent, high strength, two-part component, tin catalysed, and room temperature curing silicone rubber. It is designed as an 18 Shore A very pourable rubber providing excellent long library life and accurate detail reproduction. 6417 may be easily pigmented which makes it ideal for robotic animatronic skins, special effect skins and props for theme parks.

PRODUCTS FEATURES AND BENEFITS

Translucent - easily pigmented or painted. Excellent resistance to severe environmental exposure Low linear shrinkage. High elongation and tear strength, very flexible. Excellent long-term retention of rubber properties (library life) under dynamic use conditions. Shore A 16-18, soft, skin like feel, excellent photogenic qualities.

TYPICAL APPLICATIONS

Skins for robotic and animatronic figures. Special effect skins and props for the film industry. Theme park props and reproduction moulds.

TYPICAL PROPERTIES - 6417

	Part A base component	Part B catalyst component
Colour	Translucent	Clear
Consistency	Very pourable	
Viscosity cP (mPas)	45,000	90

TYPICAL CATALYSED PROPERTIES

Mix at 24 C (75 F) and 50% RH

Mix ratio, A:B (parts by weight)	10:1
Viscosity, cP (mPas)	25,000
Work life, minutes [1]	60
Pot life, hours [2]	1
Demould time. Hours @ RT	8-10 hours

[1] Time required to double initial catalysed viscosity

[2] Time at which material gels

TYPICAL PROPERTIES OF CURED RUBBER

Colour	Translucent
Special gravity	1.10
Hardness (shore A) (40) ASTM D2240	18
Tensile strength, psi (N/mm) ASTM D412	450 (3.1)
Elongation (%)ASTM D412	500
Tear resistance, ppi (N/mm) ASTM D624, Die B	115 (20.0)
Linear shrinkage (%)	
24 hours	0.2
7 days	0.5
Coverage, cu in/lb (cc/kg)	25.2 (909)
Temperature range	(50ºC to 150ºC)

SHELF LIFE
Six (6) months from date of shipment when stored at 24 C (75 F) in original unopened containers.

Data Values: The data contained here in is reported as typical values. Values are based on actual test data and are verified on a periodic basis. NOT FOR PRODUCT SPECIFICATION. The technical data contained herein are intended for reference only, and ARE NOT intended for use in preparing specifications.