

SQUARE® LIM2012-40A/B

Silicone Rubber, LSR
Shenzhen SQUARE Silicone Co., Ltd.

Message:

Liquid Silicone Rubber
Product Description
SQUARE® LIM2012-XXA/B is one kind of 2-part liquid silicone rubber, catalyzed by platinum, mixing ratio of parts A:B=1:1, suitable for injection molding processes, meet biology activity requirement of ISO 10993. This series gain USP Class VI.
Key Features
High transparency
High tensile and tear strength
Good rebound property
Excellent thermal and cold stability (-60°C to 250°C)
Low yellowing
Outstanding resistance to ageing
Meet ISO 10993 biological reactivity test, GB/T 16886.10-2000 and GB/T16886.5-2003 standard
At the temperature of 20 and in the condition of air-proof, the shelf life is 5 days after mixing A and B, the shelf life will decrease with the increasing of the temperature.
Applications
SQUARE® LIM2012-XXA/B is suitable for making medical instruments used inside or outside of human body

General Information			
Features	High tensile strength		
	Good tear strength		
	Definition, high		
	Thermal stability, good		
Uses	Medical devices		
Agency Ratings	ISO 10993		
	USP Class VI		
Appearance	Clear/transparent		
Processing Method	Liquid Injection Molding (LIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.5	%	JIS K6301
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	8.00	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength ¹	28.0	kN/m	ASTM D624
Compression Set (175°C, 22 hr)	20	%	DIN 53517
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Component a	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by weight: 1.0		
Pot Life (20°C)	7200	min	
Shelf Life	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity	0.60	Pa·s	DIN 53019
Curing Time (150°C)	0.12	hr	
NOTE			

1. B mould

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