

## Professional LSR Manufacturer



Shenzhen Square Silicone Co., Ltd

### SQUARE® SILICONE LIM 1510 Series

Liquid silicone rubber

#### Product Description

SQUARE® LIM 1510 Series is a two-component, platinum curable liquid insulated silicone rubber for injection molding process. The vulcanized rubber is noted for the good mechanical properties as well as for the excellent dielectrical behavior.

#### Key Feature

- Two-component system with mixing ratio of 1:1
- Outstanding aging and weather resistance
- Excellent UV and ozone resistance

#### Application

SQUARE® LIM 1510 Series is the right choice for economical production of cable accessories.

#### Process

Component A and B are delivered ready to use in 20 kilogram pails and 200 kilogram drums. They can be pumped by means of standard metering equipment from these drums and mixing in a static mixer straight into the heated mold. The mixing ratio is 1:1.

At room temperature (23°C), mixtures of A and B components have a pot life of at least three days. Please clean the pipe and machine when to halt production for long time

#### Storage

The date of manufacture of each batch is shown on the product label.

Silicone rubber can be storage in room temperature with dry and ventilated environment. Especially in warm climate, storage of the material in an air-conditioned warehouse with cool (below 25°C) and dry conditions is mandatory. The storage period is twelve month.

Storage beyond the date does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

#### Safety notes

Material safety data sheets are available upon request from Shenzhen Square silicone.

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### Product Data

Typical general characteristics	Inspection method	Unit	LIM 1510-35	LIM 1510-45
<b>Uncured</b>				
Colour			Transparent or Grey	
Viscosity of Component A (shear rate 2 s <sup>-1</sup> )	DIN53019	mPa.s	6.0-10×10 <sup>5</sup>	6.0-10×10 <sup>5</sup>
Viscosity of Component B (shear rate 2 s <sup>-1</sup> )	DIN53019	mPa.s	6.0-10×10 <sup>5</sup>	6.0-10×10 <sup>5</sup>
TC10 at 115 °C		s	80s~90s	80s~90s
TC90 at 115 °C		s	130s-150s	130s-150s
<b>Cured</b>				
Specific Density	D792	g/cm <sup>3</sup>	1.07-1.13	1.07-1.13
Hardness Shore A	D2240	°A	36-40	36-42
Tensile strength	D412	MPa	≥7.5	≥7.5
Elongation at break	D412	%	≥760%	≥740%
Tear strength	D624B	kN/m	≥27.0	≥27.0
Tensile set 25mm to 75mm, 24hrs @120°C		%	≤8.0	≤8.0
Tracking resistance	IEC 60587		1A3.5	1A4.5

Silicone rubber (120mm\*240mm\*2mm) was press cured under 140 °C for 10 minutes and post curing under 200°C for 4hrs

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