



Ref: AMB-22A

## AMBERSIL TWO PART SILICONE RTV 2005

### Introduction

Ambersil Two Part RTV 2005 is a readily pourable, white, two component silicone elastomer which cures on addition of the catalyst to a resilient rubber.

### General Characteristics

#### Uncured Compound

Appearance	:	Readily pourable liquid
Colour	:	White
Viscosity at 25°C, mPa.s	:	Typically 7000 to 10,000
Active solids content, %	:	100

#### Cured Elastomer (Results based on a 3 mm sheet cured with 1% Curing Agent A after 6 days at 23°C and 65% R.H.)

Specific Gravity 25°C/25°C	:	1.19
Hardness, °IRHD	:	45
Tensile Strength, Mpa (psi)	:	2.4 (350)
Elongation, %	:	200
Tear Strength, KN/m	:	8.9
Linear Shrinkage, %	:	0.5
Peel Strength, kg/cm (lb./in)	:	0.54 (3.0)
Thermal Expansion, cm/cm°	:	
$C \times 10^{-5}$	:	25.4
Thermal Conductivity, W/m°C	:	0.24

### Electrical Properties (Typical Values)

Based on test pieces cured at 25°C for 24 hours using 0.5% Curing Agent A.

Electric Strength kV/mm	:	25
Power Factor at 1 MHz	:	$5 \times 10^{-3}$
Permittivity at 1 MHz	:	3.4
Volume Resistivity, ohm cm	:	$3 \times 10^{14}$

### Catalysation and Cure

The recommended concentration of Curing Agent A is between 0.25 and 1% depending on the desired pot life and tack-free time.

In general the pot life of Ambersil Two Part RTV 2005 catalysed with Curing Agent A will vary from about 3 hours at 0.25% catalyst to about 1 hour at 1%.

The rubber will cure in approximately 24 hours to a hardness of approximately 40 IRHD (measured on a test piece 12mm thick).

### Bonding

Ambersil Two Part RTV 2005 will bond to clean, cured silicone rubber without the use of a primer. For all other surfaces the use of a suitable Ambersil Primer is recommended.

### Packages

Ambersil Two Part RTV 2005 is available in non-returnable containers containing the following quantities.

1 kg; 5 kg; 20 kg and 200 kg

### Storage

Ambersil Two Part RTV 2005 should be stored in closed containers at temperatures below 25°C. In its original closed containers this product has a shelf life of 6 months.

Curing Agent A tends to solidify at temperatures below 20°C. Gently warming will restore it to its normal state.

### Health and Safety

Detailed information related to Health and Safety of materials mentioned in this data sheet is given in the individual product Material Safety Data sheets, available on request.

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