

Intek Adhesives Ltd

RTV Silicones to Bond, Seal, Insulate & Weatherproof

RT 3000 Toughened Cyanoacrylate with Extended Heat Resistance

RT 3000 is a toughened cyanoacrylate with improved impact and peel strength for maximum flexibility. Its increased temperature resistance make RT 3000 suitable for a wide range of applications. It bonds to a variety of surfaces including aluminium, steel (including zinc plated) RT 3000 is excellent for bonding metal to rubber in all combinations.

Physical Properties of Uncured Adhesive

Chemical composition	Ethyl cyanoacrylate
Appearance	Black
Viscosity @ 25°C	2200-4000 mPa.s (cP)
Density	1.1

Typical Curing Properties

Maximum gap fill	0.5 mm	0.02 in
Handling time	25-30 seconds (Steel)	
	30-35 seconds (Aluminium)	
	10-15 seconds (Buna N Rubber)	
	5-10 seconds (Phenolic)	
	<i>Full strength 24 hours</i>	

Temperature Resistance -60 to + 120

RT 300 can withstand higher temperatures for brief periods (such as for paint baking and wave soldering processes) providing the joint is not unduly stressed

Typical Performance of Cured Adhesive

Shear strength* ASTM D1002	
Steel	20-23 N/mm ² (28003300psi)
Aluminium	13-15 N/mm ² (19002200 psi)
ABS	>6 N/mm ² (900psi)
Tensile Strength	25 N/2mm ² (3600 psi)
Glass Transition	58°C (140°F)
Coefficient of thermal expansion	90 x 10 ⁻⁶ mm/mm/°C
Dielectric strength	10 mV/mm
Impact Strength (ASTM D950)	16 kJ/m ² (8 ft-lb/in ²)
Hardness	85 Shore A

**Strength results will vary depending on the level of surface preparation and gap.*

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for

the purpose for which he intends to use it, and that the actual conditions of use are suitable.

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TECHNICAL DATA