

IMT-TE1040-2 NON-CONDUCTIVE DIE ATTACH ADHESIVE

IMT-TE1040-2 is a single component, electrically insulating but thermally conductive die attach adhesive. This product is designed to meet demanding semiconductor and microelectronics applications. It has an excellent adhesion property to various leadframes, high Tg FR4, BT based substrates and flex-tape. This non-conductive die attach adhesive is developed for fast cure at low temperature or snap cure at moderate temperature.

IMT-TE1040-2 does not contain solvent and is a 100% solid system. It complies to RoHS3, EU directive 2015/863 as well as Substances of Very High Concern (SVHC) published by ECHA.

This high performance non-conductive die attach adhesive is packaged in syringes for use in automated, high speed dispensing equipment or in jar for stamping / pin transfer method.

TYPICAL PROPERTIES*

Cure Conditions (Actual holding temperature & time excludes ramp up & down)	1. Snap cure at 150°C for 1 to 2mins 2. Oven cure at 120°C for 30mins
Pot Life	≥ 48 hours at room temperature
Shelf Life	12 months at -20°C or below
Thaw Time from -20°C to RT	3cc syringe: 20mins 5cc & 10cc syringes: 40mins
<u>Physical Properties</u>	
Color	Red before & after cure
Consistency	Smooth, medium viscosity paste
Specific Gravity	1.17
Viscosity @10rpm, 25°C	8,000cPs
TI Index (1/10rpm)	3.25
Glass Transition Temperature, Tg	> 130°C
Shore D Hardness	90
Die Shear Strength	> 15Kgf per 3.2 x 2mm chip on FR4 substrate
<u>Electrical & Thermal Properties</u>	
Volume Resistivity	> 10 ¹³ Ωcm
Thermal conductivity	0.5W/mK
<u>Ionic Contents</u>	
Chloride, Cl-	< 50ppm
Sodium, Na+	< 10ppm
Potassium, K+	< 10ppm

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* The information is based on data and tests believed to be accurate. In-Mat Technologies (S) Pte Ltd makes no warranties as to its accuracy and assumes no liability in connection with the use or inability to use this product.