

ALPHA[®] HITECH[®] SM42-1311

Surface Mount Adhesive

DESCRIPTION


ALPHA HiTech SM42-1311 is a one component, fast curable surface mount adhesive designed for dispensing application.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Excellent thermal resistance
- Excellent adhesion
- Excellent workability
- Non – Sagging
- Complies with RoHS Directive EU/2015/863
- Halogen Free

APPLICATION GUIDELINES

Storage	Thawing	Application	Curing
<ol style="list-style-type: none"> 1. Store at 1 to 10 °C to guarantee product stability 2. Upright Position, tip facing the bottom 	<ol style="list-style-type: none"> 1. Remove the syringe from the refrigerator 2. Set aside at room temperature for 2 hours. 3. Do not open the cap before the product is sufficiently thawed. 4. To prevent contamination of unused product, do not return any material to its original container. 	<p>ALPHA HiTech SM42-1311 is designed for use on high-speed dispensing application at room temperature condition.</p>	<p>For full property development, cure at 120 °C and hold for a minimum of 120 seconds or 150 °C and hold for a minimum of 80 seconds (convection oven).</p>

TECHNICAL DATA

Category	Tentative Specification
Typical Uncured Material Properties	
Product Name	SM42-1311
Chemistry	Epoxy
Appearance	Red Paste
Viscosity (Malcom PC-10A, 30rpm @25 °C, Poise)	350 to 550
Specific Gravity	1.1 to 1.3
Thixotropic Index	≥ 5.0
Pot Life @25 °C, days	7
Shelf Life @1 to 10 °C, months	6
Shelf Life @25 °C, days	14
Available Packaging	20cc, 30cc syringes
Typical Cured Materials Properties	
Glass Transition (T _g), °C via TMA	≥ 90
CTE (α ₁), <T _g , ppm via TMA	60 ± 10
CTE (α ₂), >T _g , ppm via TMA	190 ± 20
Corrosion, 96-hr @40 °C, 95%RH	None
Moisture Absorption, 24-hr @H ₂ O/25 °C, wt%	≤ 1.0
Insulation Resistance, 96-hr @85 °C, 85%RH	≥ 1 X 10 ¹²
Hardness (Shore D)	80 to 90

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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