

KOPSTRUAL SA-4102

Polyurethane (PUR) Hot Melt Adhesive

Product Description

Hot melt adhesive SA-4102 is a one component, hot melt adhesive with 100% solid. It is a solid state at room temperature. Applied warm, after be applied, this product will react with the humidity in the circumstance, achieve high strength bond, have no use for heat in the cure process.

Features

- 100% solids.
- Bonds a variety of plastics and metal.
- Excellent abrasion resistance.
- Cure more faster.
- Low viscosity.
- Low operate temperature (90°C -110°C) .
- Excellent impact resistance.

Typical Uncured Properties

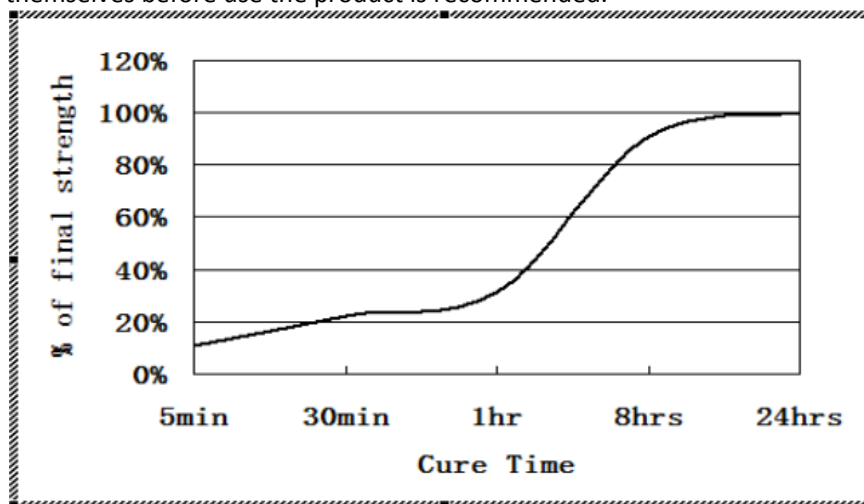
Color (visual)	White to yellow solid
Solid content	100%
Viscosity(Brookfield HBTD 10rpm)	@110°C 5000±1000cp
	@120°C 4000±1000cp
Open time	1-4mins
Operate temperature	90°C-110°C

Typical Cured Properties

Coefficient of Thermal Expansion	168.2 μ m/mK
Coefficient of Thermal Conductivity	0.318 W/mK
Specific Heat	2.7KJ/(Kg.K)
Elongation, at break	> 400%
Shore Hardness	22D
Tensile Modulus	> 200MPa
Tensile Strength	> 8MPa
Tensile Shear Strength(PMMA&PMMA)	4.11MPa
Cured condition: 25 $^{\circ}$ C	50%-70%RH cured for 7days.

Cure Speed Curve

Remark: The curve is just for reference. The cure speed is accordant to temperature, humidity and the penetrability of the substance. Customer test the adhesive by themselves before use the product is recommended.



Cured condition: 25 $^{\circ}$ C ; 70%-80%RH;

Substrates: Steel & Glass; Strength: Cross tensile strength.



Directions for Use	<p>1. Apply to clean, dry surfaces without oil and grease. For plastic materials that are often contaminated with mold release agents, if the bond strength is not high enough, it is recommended that the surface should be prepared, such as solvent wiped or abraded. The temperature of substance should not be lower than 20°C. Low temperature will shorten the open time and cause the failure of bonding. If needed, pre-heat the substrate is recommended.</p> <p>2. Please use the professional equipment to melt and apply the adhesive. Protect from hurting by heat. If long term break in the production, please lower the temperature of the equipment, otherwise, the viscosity of adhesive will increase.</p>
Package	Plastic syringe -----30ml
Storage	Store in unopened containers at a temperature 16-27°C, Shelf life is 6 months Precaution: Moist circumstance will speed the cure of these products, the cured adhesives will not be melted again.
Precautionary Information	All statements, technical information and recommendations contained in this document are based upon tests or experience that KOPLIN company believes are reliable. However, many factors beyond KOPLIN's control can affect the use and performance of a KOPLIN product in a particular application, including the conditions under
Warranty and Limited Remedy	Unless stated otherwise in KOPLIN's product literature, packaging inserts or product packaging for individual products, KOPLIN warrants that each KOPLIN product meets the applicable specifications at the time KOPLIN ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. KOPLIN MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether KOPLIN's product is fit for a particular purpose and suitable for user's application. If KOPLIN product is defective within the warranty period, your exclusive remedy and KOPLIN's and seller's sole obligation will be, at KOPLIN's option, to replace the product or refund the purchase price.

About KOPLIN KPL :

KPL brand is owned by KOPLIN LLC.

KPL is engaged in providing complete solution of high performance adhesives, lubricants materials for manufacturers of electronics and other industries.

KOPLIN is in charge of product development, quality control and related industrial design. All KPL products are manufactured by partner factories authorized by KOPLIN LLC.