GLUDITEC
Glue & Dispensing Technology

Technical Data Sheet

UV5143

Photo-light & UV Curing Adhesive

UV5143 is a one-component, UV-curable, acrylic adhesive. Mainly used in glass furniture, lighting, and electronic scale industries. This product is specially designed for the bonding of glass and metal. It has the characteristics of strong adhesion, high flexibility, high stability, and good weather resistance (-30℃~130℃). Especially suitable for glue used in glass furniture and electronic scale industries.

UNCURED PROPERTIES

Properties	Reference
Chemical composition	Polyurethane acrylic resin
Physical state	Liquid
Appearance	Red viscous liquid
Viscosity mPa.s	800-1100
Specific gravity Kg/L	1.08
Solvent content%	0
Heavy metal content PPM	0

CURING PROPERTIES

UV5143 Curing will occur under sufficient ultraviolet irradiation. The curing speed and depth depend on the light intensity, spectral distribution of the light source, irradiation time and the light transmittance of the adhered material. The following data are measured under the condition of ultraviolet radiation of 20mw/cm² produced by a high-pressure mercury lamp:

Properties	Reference
Tack free time (1mm)	10-15 S
Deep curing time (1mm)	35-40 S
Full cure energy (1mm)	1000 mj / cm²

*Recommended Curing Equipment: CUV-1800M Mercury UV Curing System

CURED PROPERTIES

The following data are measured after curing with a high-pressure mercury lamp source with a cumulative energy of 1000mj/cm².

Properties	Test method	Reference
Hardness	Shore D	70-75
Operating temperature range	-40～130℃	Customer self-test
Bonding strength	Stainless steel/GLASS	≥40N/cm²

ADHESION PROPERTIES

The following data are measured after curing with a high-pressure mercury lamp source with a cumulative energy of 1000mj/cm².

Base material	Test Conditions	Bonding strength retention rate (%)
Stainless steel/GLASS	65℃ 90% RH (72H)	95

STORAGE CONDITIONS

Please store in a cool and dark place. Please close the bottle cap after opening it. Do not pour the unused glue back into the original bottle. The optimal storage temperature is 8-28°C. Too high or too low will affect the performance of the glue. The shelf life is 8 months.

(+84) 969 469 089 info@gluditec.com www.gluditec.com