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Technical Data Sheet

ULTRAWIDE® GN075

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Photo-curing Adhesive for PET Bonding

➤ Product Description

ULTRAWIDE® GN075 is photo-curing adhesive designed for the bonding of PET plastics. GN075 fast-cure under the ultraviolet and exhibits excellent adhesion strength. The thin file of GN075 is transparent and clear. GN075 exhibits excellent adhesion tensile with PET materials. In the peeling mechanism, the bonding strength of GN075 will be higher than yield strength of PET film.

➤ Characteristics

ULTRAWIDE® GN075 is soft after curing. GN075 has toughness, shock resistance and thermal shock resistance. GN075 exhibits high adhesion strength. After curing, the line of rubber is transparent, clear and will not yellow.

➤ Physical Properties

Item	Specification	Test Method
Composition	Acrylic resin	Be judged by the composition
Chemical Class	Liquid @ 25°C	Eye inspection
Appearance	Yellowish Liquid	Eye inspection
Viscosity, cps	800~1200 25°C (S14, 100 rpm)	Brookfield RVDV-I+
Specific Gravity	----- @ 25°C, RH 60%	Specific Gravity Cup
Refractive Index n_D	1.5047 @ 25°C, RH 65%	ATAGO Abbe Refractometer NAR-1T
Color Gardner Scale	1~2	Gardner Color Comparator 605-VA2
Solvent Content, %	0	Be judged by the composition
Heavy Metal Content	0	SGS Certificate

➤ Cure Schedule

Light hardness condition

With the ultraviolet ray light source of the PHILIPS HPA400 S wave-length 365 nm ◦

Projecting light upon the energy accumulates to go to 1500~3000 mj/cm² of hardening under condition.

UV accumulates energy form: Virtuuous make Baier-UV/UV-RADCOL advanced.

Temporary curing time sec	5~10
Recommended curing time sec	10~15

➤ Mechanical Properties

Item	Specification	Test Method
Specific Gravity	--- @ H ₂ O = 25°C	Precisa XS365M Analytical Balance Refer to ASTM D792-91
Volume Shrinkage %	----	Specific Gravity Cup
Durometer Hardness Shore A	A33 25°C, RH60%	Durometer A type Refer to ASTM D2240-03
Water Absorption Ratio %	----- 25°C, 24hr	Refer to ASTM D570-95
Elongation (25°C), %	108	GOTECH GT-TS-2000-M GOTECH U55 Computer System
Light Transmittance	-----	JASCO Model V-530
Glass Transition Temp. °C	3	TA instrument MDSCQ100
Temperature Range	-40~90°C	
PET Specimen Length 100mm X Width 10mm X Thickness 0.2mm	Deformation	Peel Strength

➤ Storage and Shelf Life

ULTRAWIDE® GN075 should be kept without any possibility of light exposure. Replace lid immediately after use. GN075 has an eight month minimum shelf life when stored in dark place below 25°C in original, unopened containers.

➤ Transport information

Taiwan : Delivery and freight

Overseas : Airlift and marine transit

➤ Caution

Some findings indicate a lack of potential for carcinogenicity with the compositions of GN075 by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. GN075 is of moderate acute toxicity by swallowing. If swallowed, induce vomiting at once and call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.

The data contained in this bulletin is furnished for information only and is believed to be reliable. We cannot assume responsibility for results obtained by others over whose methods we have no control It is the user's responsibility to determine suitability for the user's purpose of any product or method mentioned herein and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use thereof. We recommend that each prospective user test the proposed application before repetitive use, using the data as a guide.