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PARLITE® 4060
UV Curable Adhesive

PARLITE 4060 is a UV curable structural adhesive designed for bonding glass to glass, to plastics, to metals, and to a wide variety of other substrates.

PARLITE 4060 is a single component thixotropic adhesive, ideal for use on vertical surfaces.

FEATURES:

- The adhesive cures in seconds upon exposure to UV radiation to form a high strength, impact resistant and flexible bond.
- Weather resistance adhesive impervious to water and prolonged humidity.

APPLICATIONS:

- For a wide variety of materials for industrial, medical and general-purpose applications.
- For electronic applications, automotive assemblies, medical devices, decorative parts, furniture, precision optical instruments, appliance parts, precision motor balancing, . . .
- Ideal for fixing metal and plastic (PVC) alarm sensors (e.g. break-glass sensors) onto glass plates, . . .

PROPERTIES OF UNCURED ADHESIVE:

Chemical Type:	Urethane Methacrylate
Appearance:	Clear, amber
Specific Gravity:	1.1 @ 77°F / 25°C
Viscosity: (Brookfield, Spindle)	15,000 -14,000 HT mPa.s (cP) @ 77°F / 25°C
Refractive Index:	1.495

PROPERTIES OF CURED ADHESIVE:

Tensile Modulus:	198.9 N/mm ² / 28,850 psi	ASTM D882
Tensile Strength:	21.4 N/mm ² / 3,100 psi	ASTM D882
Shear Strength: (Steel to Glass)	17.9 N/mm ² / 2,650 psi	ASTM D4501
Shear Strength: (Aluminum to Glass)	9.0 N/mm ² / 1,300 psi	ASTM D4501
Shear Strength: (PC to Glass)	8.6 N/mm ² / 1,250 psi	ASTM D4501
Shear Strength: (PVC to Glass)	8.6 N/mm ² / 1,250 psi	ASTM D4501
Shear Strength: (ABS to PC)	7.6 N/mm ² / 1,100 psi	ASTM D4501
Shear Strength: (G-10 to Glass)	12.1 N/mm ² / 1,760 psi	ASTM D4501
Shear Strength: (Acrylic to Glass)	10.0 N/mm ² / 1,450 psi	ASTM D4501



Elongation at Break:	350 %	
Shore Hardness D:	50	ASTM D2240
Glass Transition Temperature: (Tg)	45°C	ASTM D3418-82
Water Absorption:	8.7 %	ASTM D570
Refractive Index:	1.515	
Temperature Range: (*Short-Time)	-65 - 257°F (*300°F) / -54 - 125°C (*150°C)	

CURE CONDITIONS:

Cure can be affected with both low and high intensity UV light sources. A low UV intensity of 30 mW/cm² will cure highly transmitting substrate with < 0.010” gap in 5 seconds, or 0.07” to 0.09” (1.8-2.3mm) gaps in 10 to 20 seconds. A high UV intensity of 100 mW/cm² will cure highly transmitting surfaces with < 0.01” (0,25mm) gap in 2 seconds, or 0.10” to 0.20” (2.5-5mm) gaps in 10 to 20 seconds.

UV Curing System:

Lamp Type	5” x 5” Flood	3/16” Spot	1” x 6” Focused
Max. Lamp Intensity @ 365 nm	300 mW/cm ²	4000 mW/cm ²	8000 mW/cm ²
Adhesive Absorption Range (nm)	300 – 500	300 – 500	300 – 500
Cure Speed (Sec)			
Glass to Glass Bonding	14	12	<6
Surface Cure Speed	18	18	<6

Direction for Use:

This adhesive is UV sensitive. Exposure to daylight, UV light and artificial lighting should be kept to a minimum during handling. Adhesive product should be dispensed from applicators with black feed lines. For best performance bond surfaces should be clean and free from grease. UV cure rate is depends on lamp intensity, distance from light source, depth of cure needed or bond line gap and light transmittance of the substrate through which the radiation must pass. Recommended intensity for cure in adhesive applications are 40-mW/cm² minimums with an exposure time of 5-6 times the fixture time at this same intensity. For tack free surface cure, as necessary in coating, potting or tacking applications, higher intensity UV is required. Protect skin and eyes from UV rays when using UV Lamps for curing. UV rays can cause sunburn. It is recommended to wear gloves and UV-protective glasses.

Storage:

UV Curable adhesives shall be ideally stored in a cool, dry place in unopened containers at temperatures between 41°F/5°C and 77°F/25°C. The shelf life (stored under these conditions) can be up to 1 year. Exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material. **Warranty:** All products purchased from or supplied by Parson are subject to terms and conditions set out in the contract. Parson warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Parson is consider accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Parson makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will nor infringe any patent. ct will nor infringe any patent.