



POLYMERES
technologies

TECHNO CRYL 8050

Methacrylate-based
structural adhesive

DESCRIPTION

TECHNO CRYL 8050 is a methacrylate-based structural adhesive designed for bonding engineered thermoplastics, thermosets, composites, nylon, ecoat and metal together in any combination.

TECHNO CRYL 8050 forms tough, durable bonds to many diverse substrates without surface cleaning, sanding or chemical wipes. **TECHNO CRYL 8050** has exceptional durability and environmental resistance.

CHARACTERISTICS

- Excellent impact and vibration resistance
- Weather resistance
- Excellent wetting properties
- Easy to apply
- Thixotropic

APPLICATIONS

TECHNO CRYL 8050

All surfaces must be sound, solid, dry and free of all contaminants such as grease, oil, dust, etc.

Mix one part A and one part B per volume until color is uniform.

Physical properties can be changed if mix ratio varies.

Uncured material can be easily cleaned with solvent T-901.

Please consult **POLYMERES TECHNOLOGIES** for more details based on your application.

TYPICAL PROPERTIES (@ 22°C)

		PART A	PART B	MIXED
Viscosity	Brookfield (cps)	65,000	15,500	48,500
Color		Ivory	Milky white	Ivory
Consistency		Light gel		
Density	(g/cm ³)	1.03	0.98	1.01
Mixing ratio	1. by volume:	1	1	1/1
Pot life (22°C)	mass 200cc	14 min		
Gel time (22°C)	Mass 200cc	20 min @ 22°C		
Full cure (hours)		24 hours @ 22°C		

PHYSICAL PROPERTIES (@ 22°C)

TEST	METHOD	RESULTS	
Hardness(Shore D)	ASTM D-2240	Shore D	68
Tensile strength	ASTM D 638	MPa ¹	32.5 Mpa
Elongation	ASTM D-638 type IV	(%)	12.5
Flexural strength	ASTM D 790	MPa	29.5
Compressive strength	ASTM D 695	MPa	32.5
Linear shrinkage	ASTM D 2566	cm/cm	0.0004
Operating temperature	ASTM D 648	°C	-55°C @ 121°C
Water absorption (24 hours)	ASTM D 570	%	0.20
	ASTM D 570	%	0.25
Shear strength 1. Aluminium 2. Stainless steel	ASTM D 1002 ASTM D 1002	MPa	30.5 Mpa

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Normal health and safety precautions should be observed when handling these products :
 - Ensure good ventilation
 - Wear gloves, safety glasses and waterproof clothes.
 - Should be stored in a cool dry place out of direct sunlight.
- Shelf life of product in original closed containers is **one (1) year** and can be extended by refrigeration. Do not freeze.
- Once the container is opened **POLYMÈRES** has no control or responsibility for the shelf life.
- It is recommended to follow Provincial and Federal safety regulations. In case of eye contact, rinse well with water, in case of skin contact, rinse with soap and water. Keep away from children.

GUARANTEE

Having no control on the use and applications of this product, the manufacturer and/or distributor cannot guarantee the results achieved. The warranty is therefore limited to the replacement of a product whose user can demonstrate, in a way that is satisfactory to both manufacturer and distributor, that it is in fact defective. Before using this product, the user must ensure that it is appropriate for the chosen purpose. The user assumes all risks related to this use. The user must ensure that the product meets his or her needs by testing it at the short, medium, and long-term to validate the results in the intended operating conditions and following the prepared instructions. This limited warranty disclaims any liability for indirect, accidental, or special damages. Except for the warranty described above, the user expressly recognizes and accepts that, upon purchase of this product, the manufacturer and/or distributor disclaim any other responsibility and that any other warranties, express or implied, related to a warranty of merchantability and to an implicit warranty related to the quality of materials are expressly excluded.

¹ 1 MPa = 145 lb/po²