



SUBSTRATE RECOMMENDATIONS

SCIGRIP® 55 is formulated for bonding a wide variety of thermoplastics, including polycarbonate, cellulose acetate butyrate, PETG, buffed acrylic, ABS, PVC, polyurethane and foam board to themselves and one another.

BONDING RECOMMENDATIONS

SCIGRIP 55 is recommended for a variety of applications in the sign assembly industry, especially butyrate trim cap and polycarbonate in channel letter applications. It also has many uses in other plastic fabrication industries for bonding ABS to PETG.

GENERAL DESCRIPTION

SCIGRIP 55 is a slow curing, clear colorless, two-component, 100% reactive polyurethane adhesive that contains no volatile organic compounds (VOC). When mixed and applied, it polymerizes at room temperature to form high strength bonds within a few hours. The adhesive has excellent resistance to discoloration by UV light and has excellent lap shear and impact strength.

TYPICAL BOND STRENGTH†

Substrate Material	Aged Bond Strength, lbs/in ² (kg/cm ²)		
	24 Hours	72 Hours	1 Week
ABS	2150 (151)	2300 (162)	2500 (175.8)
PETG	1600 (113)	2350 (165)	2400 (168.7)
Polycarbonate	1950 (137)	2650 (186)	2900 (204)

†Substrate thickness: 0.25 inch (0.64 cm). Bond area: 1.0 in² (6.45 cm²)

ADHESIVE PROPERTIES AND CHARACTERISTICS @ 73°F (23°C)

COLOR:	Clear	FIXTURE TIME:	1 – 2 Hours
VISCOSITY:	3000 ± 1000 cps	TIME TO REACH 80% OF ULTIMATE BOND STRENGTH:	72 Hours
REACTIVITY:	Gel time = 10 Minutes, 50 Gram mass	SPECIFIC GRAVITY:	Component A: 1.168 ± 0.004
TACK FREE TIME:	1 Hour, 0.05 Inch (0.13 cm) film thickness		Component B: 1.112 ± 0.004
WORKING TIME:	5 – 6 Minutes		

DIRECTIONS FOR USE

SCIGRIP 55 is packaged in a twin-syringe cartridge that dispenses product in a 1:1 mix ratio. The cartridge must be assembled to the dispensing gun and mixing tip prior to dispensing.

- Before inserting the cartridge in the dispensing gun, open cartridge valve and clean obstructions from cartridge nose and valve opening with a clean probe. Close valve.
- Insert cartridge into dispensing gun. Open valve. Dispense a small amount of adhesive making sure that both components freely flow from the cartridge.
- Attach the mixing tip to the cartridge. Press the dispensing gun to dispense and discard approximately 1 – 2 inches of the product, ensuring that the product mix properly in the mixing tip before use. If the mixing tip is left on the cartridge for a sufficient length of time without additional use, the adhesive may cure in the tip. If this happens, keep the mixing tip on the cartridge. When you are ready to dispense more adhesive, replace the mixing tip on the cartridge with a new one. Be sure to discard 1 – 2 inches of the product before use.

NOTE: The viscosity of this product will allow it to flow between the polycarbonate letter and the butyrate trim cap in most channel letter applications. The application of a reinforcing bead is recommended.

AVAILABILITY

This product is available in 50 ml cartridge. For detailed information on mixing tip and dispensing gun, refer to the current Assembly Adhesive Selection Guide and Price List.

SHELF LIFE

One year in unopened cartridge. The date code of manufacture is stamped on the bottom of the cartridge. Shelf life is reduced at higher temperatures and enhanced at lower temperatures. To optimize shelf life, refrigerator storage is recommended and/or store in cool dark place between 50° – 80°F (10° – 27°C). Keep away from sources of heat, open flame, sparks, sunlight and moisture.

QUALITY ASSURANCE

Each component of SCIGRIP 55 is carefully evaluated to assure that consistent high quality is maintained. Significant testing and evaluation of application and bonding characteristics are conducted on each batch. A batch identification code is stamped on each cartridge providing traceability of all materials and processes used to manufacture this adhesive.

SHIPPING

Shipping Information for One Liter and Above: Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9. Identification Number: UN 3082. Packing Group: III. Label Required: Class 9.

Shipping Information for Less than One Liter: Proper Shipping Name: Consumer Commodity. Hazard Class: ORM-D.

SAFETY AND ENVIRONMENTAL PRECAUTIONS

SCIGRIP 55 is a reactive adhesive and is classified as a hazardous material. This product does not emit VOC. In conformance with the Federal Hazardous Substrates Labeling Act, the following hazards and precautions need to be recognized and followed.

**WARNING! FLAMMABLE. VAPOR HARMFUL.
MAY BE HARMFUL IF SWALLOWED. MAY IRRITATE SKIN OR EYES.**

Keep out of the reach of children. Do not take internally. Keep away from heat, spark, open flame and other sources of ignition. Contact with hot surfaces may produce toxic effects. Keep container closed when not in use. Store away from direct sunlight between 50° – 80°F (10° – 27°C). Use only in adequate ventilation. Avoid breathing of vapors. Atmospheric levels should be maintained below established exposure limit values. See Sections II and VIII of Material Safety Data Sheet. If airborne concentrations exceed these limits, use a supplied air respirator. Do not use a chemical cartridge respirator. For emergencies and other conditions where short-term exposure may be exceeded, use an approved positive pressure self-contained breathing apparatus. In confined areas, use a positive pressure self-contained breathing apparatus (SCBA). Do not smoke, eat or drink while working with this product. Avoid contact with skin, eyes, and clothing. May cause eye injury. Protective equipment such as gloves, safety goggles, and impervious apron should be used. Carefully read Material Safety Data Sheet and follow all precautions.

FIRST AID

Inhalation: If overcome with vapors, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician.

Eye Contact: Flush with plenty of water for 15 minutes and call a physician.

Skin Contact: Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: If swallowed, give 1 or 2 glasses of water or milk. Do not induce vomiting. Contact physician or poison control center immediately.

IMPORTANT NOTE

This product is intended for use by skilled individuals at their own risk. These suggestions and data are based on information we believe to be reliable. Users should verify by test that this product, as well as these methods, is suited to their application.

WARRANTY

IPS Corporation (IPS Corp.) warrants that all new IPS Corp. products shall be of good quality and free from defects in material and workmanship for the shelf life as indicated on the product. If any IPS Corp. product becomes defective, or fails to conform to our written limited warranty under normal use and storage conditions, then IPS Corp. will, without charge, replace the nonconforming product. However, this limited warranty shall not extend to, nor shall IPS Corp. be responsible for, damages or loss resulting from accident, misuse, negligent use, improper application, or incorporation of IPS Corp. products into other products. In addition, any repackaging of IPS Corp. products also shall void the limited warranty. IPS Corp. shall not be responsible for, nor does this limited warranty extend to, consequential damage, or incidental damage or expense, including without limitation, injury to persons or property or loss of use. Please refer to our standard IPS Corp. Limited Warranty for additional provisions.



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