

10-2055

10-2055 HV

55 Shore D Polyurethane Adhesives

DESCRIPTION:

10-2055 and 10-2055HV were developed to produce general purpose, semi flexible polyurethane adhesives for bonding a wide variety of plastic and metal substrates. The flexibility of these adhesives allows bonding to substrates with high coefficients of thermal expansion (CTE) and substrates with different CTE's.

The same Iso component is used separately with each Polyol at a convenient 1:1 ratio by volume. The selection of Polyol determines the initial viscosity of the adhesive. 10-2055 produces a light paste consistency similar to honey and 10-2055 HV produces a heavy paste consistency similar to grease. Please note each Iso and Polyol offer good low viscosity handling characteristics and turn thixotropic upon mixing.

TYPICAL PROPERTIES:

Viscosity, 25 °C, cps

10-2055P Polyol	3,000
10-2055PHV High Viscosity Polyol	3,000
10-2055I Isocyanate	8,000
Mixed 10-2055	Light Paste
Mixed 10-2055HV	Heavy Paste

Color

10-2055P/10-2055PHV	Clear
10-2055I Isocyanate	Light Amber

Hardness, Shore D

55-60

Mix ratio (Polyol/Polyol HV:Iso)

By Volume	1:1
By Weight	100:90

Operating Temperature Range, °C

-40 to +120

Work Life, 25 °C

3-5 Minutes

Specific Gravity, 25 °C

10-2055P/10-2055PHV	1.05
10-2055 Isocyanate	1.15



Dielectric Strength, V/mil, 1/8 inch	>400
Insulation Resistance, ohms, 25 °C	2.4 x10 ⁻¹¹
Thermal Conductivity, W/m·K	0.12

TYPICAL BOND STRENGTH:

While complete chemical curing of the adhesive may take several days, bond strengths are reached quickly. Generally, most substrates reach one half of their final bond strength in 3 hours or less.

Aluminum	1200 psi
Cold rolled Steel	1200 psi
Stainless Steel	900 psi
Polycarbonate	500 psi
Acrylic	500 psi
Polyvinylchloride	400 psi
Nylon	250 psi

INSTRUCTIONS FOR USE:

Follow TriggerBond® application guidelines.

1. Make sure all substrates to be bonded are prepared, clean and dry.
2. Apply adhesive and arrange in its final configuration in 3-5 minutes.
3. Cure for 24 hours.

Notes: The set time is application specific but we do not recommend less than 25 minutes. The bond strength may be decreased by early handling.

STORAGE & HANDLING & SAFETY:

Store components at 25 °C. The expected shelf life is 3 months.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

These adhesives are available in 50, 75, 200 and 400ml TriggerBond® cartridges. They may also be obtained in bulk but should be dispensed through automatic meter mix equipment.

IMPORTANT:

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