

TECHNICAL DATA SHEET

HS-8080GN

Gray Acrylic Double-Sided Tape

Product Description

HS-8080GN is a gray double-sided tape engineered with an acrylic adhesive system. It utilizes a resilient foam carrier that balances immediate tack with long-term holding power, delivering reliable bonding performance on metals, glass, painted surfaces, and common engineering plastics. Its formulation provides exceptional resistance to thermal cycling, UV radiation, and environmental moisture, making it suitable for both indoor and protected outdoor installations.

Structural Composition

Top/Bottom Layers: Red polyethylene release liners (siliconized surface contacting adhesive)

Core Carrier: 0.80 mm gray cross-linked acrylic foam matrix (closed-cell structure)

Adhesive Coating: Dual-side acrylic pressure-sensitive adhesive (approx. 35 μm per side)

Key Features

High Adhesion Strength: Strong initial grab and sustained final adhesion to metals, glass, and various plastics/coatings

Dynamic Load Resistance: Withstands static shear loads and dampens vibration/shock impacts during service

Environmental Durability: Excellent aging stability under thermal extremes (-40°C to 120°C long-term), UV exposure, humidity, and solvent exposure; isolates bonded assemblies from external contaminant

Target Applications

Automotive manufacturing, electronics assembly, advertising/signage fabrication

Hardware production, building/construction installations

Solar photovoltaic mounting systems, elevator interior component assembly

Enhanced Application Scenarios (Extended Content)

Automotive Assembly

Bonding interior trim panels, door sill protectors, and dashboard components to painted metal frames

Mounting wheel arch moldings and exterior decorative strips on vehicle bodywork

Electronics Manufacturing

Securing PCB mounting brackets and internal chassis components to enclosure walls

Attaching display bezels, touchscreen retention clips, and wire routing guides inside devices

Construction & Signage

Installing lightweight aluminum composite panels (ACP) and directional sign plates on concrete/metal substrates

Mounting retail promotional displays and exhibition booth panels on drywall or plywood

Renewable Energy Systems

Fixing junction box bases and cable management trays to solar panel backsheets (non-structural bonds)

Industrial Equipment

Assembling elevator control panel overlays and cabin interior fittings on galvanized steel frames

Shipping Specifications

Usable Thickness (mm)	Width (mm)	Length (m)
0.80	610	33

Note: Custom widths and lengths available upon inquiry. Contact Anhui Heshuo for non-standard dimensions.

Technical Properties (Laboratory Values – Not Guaranteed Specifications)

Item	Parameter Detail	Unit	Value	Reference Standard
Thickness	Total usable thickness	mm	0.80 ± 0.05	GB/T 7125
Peel Adhesion	To steel plate, 180° peel, 25 min dwell	N/25mm	≥32	GB/T 2792
Holding Power	25 × 25 mm bonded area, 100°C, 1 kg load	hr	≥72	GB/T 4851
Temperature Resistance	Short-term exposure Long-term service range	°C	150 -40 to +120	—
Color	Tape body Release liner	—	Gray Red	Visual inspection
Shelf Life	Original packaging, stored at 4–30°C, ≤55% RH	—	12 months from shipment date	—

Handling Instructions

Bond Strength Optimization: Achieve full adhesive contact by applying firm, uniform pressure across the entire bond area immediately after placement to maximize adhesion performance.

Surface Preparation: Ensure bonding surfaces are clean, dry, and smooth. Use ethanol as a typical cleaning solvent; follow proper handling protocols when using solvents.

Application Temperature: Ideal bonding range is 21–38°C (70–100°F). Avoid application below 10°C (50°F); pre-warm tape and substrate above 15°C if cold-environment work is unavoidable.

Important Legal Disclaimer

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