

## TECHNICAL DATA SHEET

HS-8040GN

Gray Acrylic Double-Sided Tape

### Product Description

HS-8040GN is a gray double-sided tape formulated with an acrylic adhesive system. It features a non-sagging thin carrier that combines high initial tack with consistent final adhesion, suitable for bonding metals, glass, and most engineering plastics. The UV-stable formulation resists degradation from humidity, solvents, and temperature cycling, providing reliable isolation against external environmental factors.

### Structural Composition

Carrier: 0.36 mm cross-linked closed-cell foam matrix (gray)

Adhesive layers: Dual-side acrylic pressure-sensitive adhesive (22 µm per side)

Release liners: Red or transparent polyethylene film (siliconized)

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### Extended Application Scenarios

#### Automotive Interior Assembly

Mounting interior trim panels, cup holder inserts, and glove compartment components on ABS/PP substrates

Bonding fabric-covered panels and acoustic insulation pads to metal door frames

#### Electronics & Appliance Manufacturing

Securing LCD module brackets and touch panel bezels to device chassis

Attaching wire routing clips and cable management tabs inside appliance housings

## Renewable Energy Systems

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

## Signage & Display Fabrication

Mounting lightweight acrylic information plaques and directional signs on concrete/painted walls

Bonding foam-backed graphics to retail display standoffs

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## Technical Specifications

Item	Parameter	Unit	Value	Test Standard
Useable Thickness	Total tape thickness	mm	0.40 ± 0.02	GB/T 7125
Adhesion to Steel	180° peel, 20 min dwell	N/25mm	≥24	GB/T 2792
Holding Power	25×25 mm bond, 80°C, 1 kg load	hr	≥48	GB/T 4851
Temperature Resistance	Short-term exposure Long-term service	°C	150 -20 to +100	—
Color	Tape body Release liner	—	Gray Red / Transparent	Visual inspection

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## Standard Order Specifications

Usable Thickness (mm)	Width (mm)	Length (m)
0.40	610	33 / 66

*Custom widths and lengths available upon request.*

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## Handling Instructions

**Surface Prep:** Clean bonding surfaces with ethanol (>95% purity) to remove oils and particulates. Allow solvent to fully evaporate before application.

**Application Range:** Optimal bonding at 21–38°C. Not recommended for application below 10°C; pre-warm tape and substrate to >15°C if required.

**Activation Pressure:** Apply uniform pressure ( $\geq 0.4$  MPa) across the entire bond area for 10–20 seconds to maximize adhesive wet-out.

**Shelf Life:** 12 months from shipment date when stored at 4–30°C, <55% RH in original packaging.