

3M™ Screen Printable UV-Curing Adhesive 7555



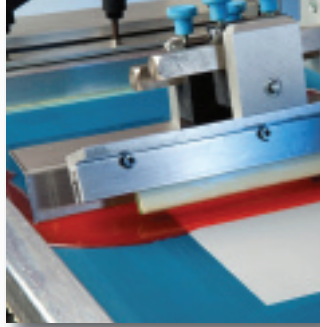
Easy as ink

High tack in seconds
with good peel and
high shear



Easy as ink

Cures at high speed



3M™ Screen Printable UV-Curing Adhesive 7555

Using standard flat bed screen printing equipment, 3M™ Screen Printable UV-Curing Adhesive 7555 applies like ink to a substrate and cures in UV light to a high tack pressure sensitive adhesive coating that bonds on contact. The special 100% solids formulation provides a variety of production and end use benefits:

1. Cures in UV light for productivity, efficiency, and customized performance

- Cure in 0.5 to 2 seconds to a high tack coating that grabs immediately
- High energy processing provides good peel, high shear, and final caliper nearly equivalent to printed wet thickness
- Until exposed to UV, adhesive stays fluid to help reduce screen refills and cleaning
- Cure inline for high volume
- UV-curing uses less space and heat than traditional solvent and water-based drying systems
- Non-flammable in the wet state unlike solvent-based adhesive

2. Expanded design possibilities for complex and precise patterns

- Precisely applied adhesive fits dimensions tighter than possible with tape to readily match complex patterns
- Precise set-back from knock-outs leaves adhesive-free openings
- 100% solids for tight control of post-cure caliper shrinkage

3. More usable adhesive for your money

- Solvent-free 100% solids for cost-effective high coverage; no evaporation
- Screen printed adhesive goes only where needed; no adhesive wasted in die-cut knock-outs

4. Easier assembly than with die-cut double-coated tape

- Adhesive printed consistently in the same place eliminates the time and alignment problems of hand lay-up



Consistent adhesive placement eliminates alignment problems

Adhesive is set-back for adhesive-free openings

Cured adhesive resists high temperature, moisture, aging, and UV degradation

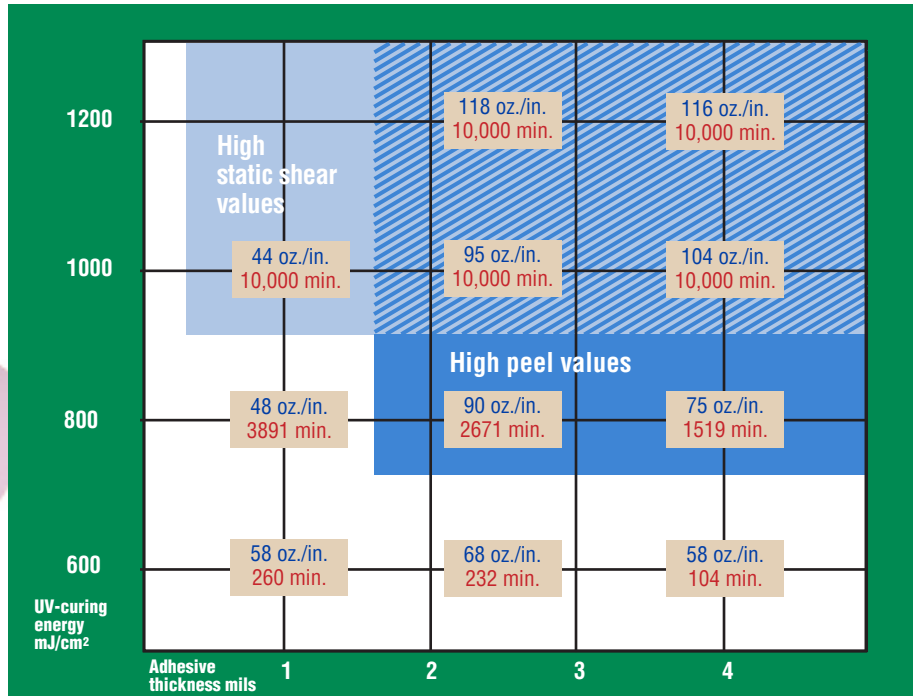
Customize a balance of high shear and peel strengths



Adhesive fits tight dimensions

VE ONLY
NEEDED

No adhesive wasted in knock-outs



Increasing the UV energy improves shear performance and resistance to moisture and temperature while maintaining high initial tack and good peel performance.

180° Peel
@ 23°C on ABS
Static shear @
23°/500g

Note: Technical information and data above should be considered representative only and should not be used for specification purposes.

5. Substrate and application versatility

This one adhesive bonds polycarbonate and other plastics, heat-sensitive materials, metal, and more in applications that include:

- Membrane switch keypads
- Instrument control panels

- Graphic overlays
- Home appliances
- Home entertainment equipment
- Pagers
- Cell phones
- Car interior trim
- Car door panel moisture barriers
- Foam padding

6. End use reliability

- High shear and peel strengths to meet specific application requirements
- Long term performance with resistance to elevated temperature, moisture, aging, and UV



Product Selection

Product Number	Adhesive Thickness	UV-A Energy (320-390 nm)		
		Standard	High Static Shear Strength	High Initial Tack
7555	1 - 4 mil	800 - 1000 mJ/cm ²	> 1000 mJ/cm ²	600 - 1600 mJ/cm ²

UV-A energies of 100 to 200 mJ/cm² are sufficient to ensure that UV-curable adhesives do not flow.

Liner Product Construction

Product Number	Thickness (Nominal)	Type/Color	Coating
7526L Secondary Liner	4.2 mils	Polycoated Kraft Paper/Tan	Silicone-C2S Coated both sides with a silicone release agent. Gloss side: Low release silicone normally on outside wraps of roll. Matte side: Medium release silicone.
7527L Secondary Liner	3.0 mils	HDPE Film/Cloudy white	Silicone-C1S Coated one side with a silicone release agent. Silicone normally on outside wraps of roll.

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