

High Tack Pressure Sensitive Adhesive (PSA)

PRODUCT DESCRIPTION

The Tru-Bond[™] PSA 750 High Tack Pressure Sensitive Adhesive (PSA) is a one-part, solventless liquid that cures to a tacky adhesive when exposed to UV/Visible light. This PSA can be cured directly through clear or translucent surfaces or cured first prior to assembly. The curing first method allows for the joining of parts at some future point. This product can bond a wide range of substrates including PE, PP, PET, TPU and most plastics, metals, glass, and ceramics. It can be sprayed, roll coated, bead or brush applied, screen printed or used in a flexographic printing process. Can be used in cold temperature attachment <10^oF (-12^oC)

PRODUCT CHARACTERISTICS

Chemical Class	Acrylic
Appearance(uncured)	Clear liquid
Components	Single-requires no mixing
Viscosity	Low

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific gravity@25 °C	1.0
Viscosity@25 oC, Brook	field RV
Spindle 2, 10 rpm, cP	750
Flashpoint, °F(°C)	>212(100)
Non-Volatile Materials, %	>99
VOC, %	<1
Shelf life, months	24
Solubility	ketones, oxygenated solvents

TYPICAL PROPERTIES OF CURED MATERIALS

Color.	Optically Clear
Water absorption, ASTM D570 (24 hrs.),	1.93
Boiling Water, ASTM D570 (2 hrs.), %	1.40
Shore hardness	<000 61
Temperature Range °F(°C)	-40~200(-40~93)

RoHS and REACH Compliant

Process Latitude of Tru-Bond UV PSA 750

180 Degree Peel-PET film 300mm*25mm*0.075mm; SS304 100mm*25mm*1mm apply the adhesive on the PET film first, cure, assemble the PET film on the 304 SS, and then roll with weight (2 Kg). Dwell 7 days.

	Dose with Fusion D bulb at 100 mW/cm ²							
PSA 750 High Tack	500	750	1000	1250	1500	1750	2000	2500
	mJ/cm ²	mJ/cm ²	mJ/cm²	mJ/cm ²				
Nominal Film								
Thickness	Lineal Peel Strength							
	lbs/inch	lbs/inch	lbs/inch	lbs/inch	lbs/inch	lbs/inch	lbs/inch	lbs/inch
	N/25mm	N/25mm	N/25mm	N/25mm	N/25mm	N/25mm	N/25mm	N/25mm
0 E mil (12 Eum)	2	2	2	2	2	2	2	2
0.5 mil (12.5μm)	9	9	9	9	9	9	9	9
1.0	4	5	6	6	6	6	5	5
1.0 mil (25μm)	26	26	26	26	26	26	22	22
2.0 mil (50μm)	4	6	7	8	8	8	8	8
	17	26	30	35	35	35	35	35
3.0 mil (75μm)	4	5	7	7	7	7	7	7
	17	22	30	30	30	30	30	30
5.0 mil (125 μm)	4	6	8	8	9	8	7	7
	17	26	35	35	39	35	30	30

Strength Development of Tru-Bond UV PSA 750									
ASTM D330 modified 0.05mm aluminum film to Stainless Steel,									
2 mil (0.0.50mm) adhesive film thickness. 1500 mJ/cm ² Dosage with Metal Halide lamp at 50 mW/cm ²									
15 mir	n. room	72 hr. room 72 hr. Dwell		vell 158°F	72 hr. Room		7 Day		
ter	np.	Temp.	90°	(70°C)		Temp	. Dwell	Dv	vell
90° Peel		Peel		90° Peel		180	° Peel	90°	Peel
lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm
5.1	22.7	4	17.8	8.5	37.8	5.2	23.1	5.5	24.5

CONVERSIONS

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches μ m / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

WARRANTY

ITW will replace any material found to be defective. Because the storage, handling and application of this material are beyond our control, we can accept no liability for the results obtained.

STORAGE

Store the unopened product in a cool, dry, well ventilated location away from sources of heat. Optimal storage temperatures should range between **10 °C (50 °F) and 32 °C (90 °F).** Do not expose the product to light. It may polymerize upon prolonged exposure to ambient or artificial light.

NOTE

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For technical assistance, please call:

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India	91-8455-224705
Europe	44 (0)1933 354 550

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