Tru-Bond™ PSA 2500

Technical Data Sheet Rev03, Oct 2016

UV/Visible Light Cure Adhesive

High Tack Pressure Sensitive Adhesive (PSA)

PRODUCT DESCRIPTION

The Tru-BondTM PSA 2500 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.

PRODUCT CHARACTERISTICS

TYPICAL PROPERTIES OF CURED MATERIALS

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

Color. Optically Clear Water absorption, ASTM D570 (24 hrs.), % 1.5 Boiling Water, ASTM D570 (2 hrs.), % 1.4 Shore hardness <000 61 Temperature Range °F (°C) -40-200 (-40-93)

TYPICAL PROPERTIES OF UNCURED MATERIAL

RoHS and REACH Compliant

Process
Latitude of
Tru-Bond UV
PSA

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.

PSA									
	Dose with Fusion D bulb at 100 mW/cm ²								
PSA 2500 High Tack	500	750	1000	1250	1500	1750	2000	2500	
	mJ/cm²	mJ/cm²	mJ/cm²	mJ/cm²	mJ/cm²	mJ/cm²	mJ/cm²	mJ/cm²	
Nominal Film	Lineal Peel Strength								
Thickness									
	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	
0.5 mil (12.5μm)	2	2	2	2	2	2	2	2	
	9	9	9	9	9	9	9	9	
1.0 mil (25µm)	6	6	6	6	6	6	5	5	
	26	26	26	26	26	26	22	22	
2.0 mil (50μm)	4	6	7	8	8	8	8	8	
	17	26	30	34	34	34	34	34	
3.0 mil (75µm)	4	5	6	7	7	7	7	7	
	17	22	26	30	30	30	30	30	
5.0 mil (125 μm)	2	4	7	7	8	7	7	7	
	9	17	30	30	34	30	30	30	



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Strength Development of Tru-Bond UV PSA 2500											
ASTM D330 modified 0.05mm aluminum film to Stainless Steel,											
2 mil (0.0.50mm) adhesive film thickness. 1500 mJ/cm² Dosage with Metal Halide lamp at 50 mW/cm²											
15 min. room 72		72 hr	. room	72 hr. Dwell 158°F		72 hr. Room		7 Day			
temp.		Temp.	90°	(70°C)		Temp. Dwell		Dwell			
90° Peel		Peel		90° Peel		180° Peel		90º Peel			
lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm	lbs./inch	N/25mm		
5.6	24.9	7.2	32	8	35.6	10.4	46.3	9.7	43.1		

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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