

Product Data Sheet – PSA490



Description

DR 490v2 is a red tamper evident tape that “voids” when removed, with no numbers and no perforations.

DR 490v2 is designed for use on cardboard boxes in the packaging industry.

Roll Data

	Metric	Imperial
Material Width	Standard 50.8mm	Standard 2”
Roll Length	50 metres	164 ’
Core I/D	76mm	3”

Material Data

	Test Method	Metric	Imperial
Film		BOPP	BOPP
Thickness	n/a	50μ	0.00196”
Tensile strength (MD)	ASTM D 882 @ 50%/min	210 MN/m ²	
Tensile strength (TD)	ASTM D 882 @ 50%/min	175 MN/m ²	
Elongation at break (MD)	ASTM D 882 @ 50%/min	85%	85%
Elongation at break (TD)	ASTM D 882 @ 50%/min	105%	105%

Adhesive Data

	Formulated hot melt	Formulated hot melt
Adhesive thickness	30 - 45gsm (~30-45μ)	1.18 – 1.77 thou
Softening point (Mettler drop point)	92°C	197.6°F
SAFT	59°C	138.9°F
Peel (20 min, glass)	35N / 25mm	309 inch pounds
Peel (24 hours, glass)	37N / 25mm	327 inch pounds
Tack (glass)	60N / 25mm	531
Shear (25mm x 25mm, 23°C, glass)	3 Days	3 Days (1” x1”, 73.4°F, glass)
Shear (25mm x 25mm, 40°C, steel)	1.5 hours	1.5 hours (1” x1”, 104°F, steel)

Note #1: Tests carried out using 50μ PET, 40gsm – tests cannot be carried out using tamper evident product as the tape is designed to “split” into 2 parts.

Note #2: The ingredients of the adhesive meet the compositional requirements of the American Food & Drug Administration regulations 21 CFR 175.105

Note #3: This product is not designed for food contact.

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Packaging

The rolls are packed 36 rolls to a box depending upon requirements and width / length of tape.

Application

Apply the tape to the box using pressure (via hand tape dispenser) or by rubbing your hand over the tape. Care should be taken when applying the tape. If the tape is unwound too fast, pre-voiding may occur. For high speed automatic tape dispensing trials should take place. We are able to modify release levels and adhesive to suit individual applications.

Recommended application temperature +15°C to 25°C

Quality of voiding is dependent upon the quality of the board the tape is applied to. The customer should always evaluate the tape on the board used to confirm suitability. If in doubt, please contact PSA Solutions and we will run tests and trials.

Storage

For the storage of PSA490 it is recommended that dry conditions between 10-20°C (50-68°F), kept in the box, out of direct sunlight.

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