

Technical Data Sheet

#TLM1102 VICtrex® PEEK™ Tape Test Report

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Description:

GENERAL

Material Type: VICtrex® APTIV™ 1102-025MS (0.025mm)

Finish: Matt White

Adhesive: Cross-link silicon PSA

APPLICATIONS

Printed circuit board and electronic component preprocess.

Especially on IC parts , CMOS IR glass and wafer without adhesive residue after high temperature process.

SPECIAL FEATURES

Allowing for easier use in processes which demand thin and/or lighter weight lable/masking materials.

Property :

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.001 inch (0.025 mm) 0.0014 inch (0.035 mm) 0.0024 inch (0.060 mm)
Tensile Strength at break	ISO 527-3	110 Mpa(MD)
Tensile Elongation at break	ISO 527-3	142%(MD)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	20 g/25mm 20 g/25mm

Temperature Test Sample preparing :

Tape cutting to 25mm x 100mm adhere to customer IR coating glass pressed by 2kg weight roller for one round.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Short Term High Service Temperature	60 seconds at 572°F (300°C)	Lable waving slightly at 572°F (300°C), but no adhesive residue on glass.
	30 minutes at 500°F (260°C)	No visible effect to label at 260°C. No adhesive residue on glass.
	2 hours at 338°F (170°C)	No visible effect to label at 170°C. No adhesive residue on glass.
Long Term High Service Temperature	500 hours at 212°F (100°C)	No visible effect to label at 100°C. No adhesive residue on glass.
Boiling Water Resistance	10 hours at 212°F (100°C)	No visible effect to label . No adhesive residue on glass.
Weatherability*	ASTM G 26 500 hours in Xenon Arc Weatherometer	No visible effect to label. No adhesive residue on glass.
Thermal Cycle Testing	Label adhered to epoxy PC board and exposed to: 2 minutes in Fluorinert™ FC-5312 vapor phase at 420°F (216°C)	No visible effect to label. No adhesive residue on glass.

*Not recommended for outdoor use.

Trademarks and References:

APTIV™ and PEEK™ are trademarks of VICtrex plc.

Fluorinert™ is a trademark of the 3M Corporation..

ISO: International Organization for Standardization

ASTM: American Society for Testing and Materials (U.S.A.)

UL: Underwriters Laboratories Inc. (U.S.A.)

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by customers for designs and specifications, or be relied on as meeting specified performance criteria.