

Specialties : Stone Chips Protection
CrystalProtect 150

GENERAL INTRODUCTION

PRODUCT DESCRIPTION

TYPICAL APPLICATION

CHARACTERISTICS

RESISTANCE

SHELF LIFE

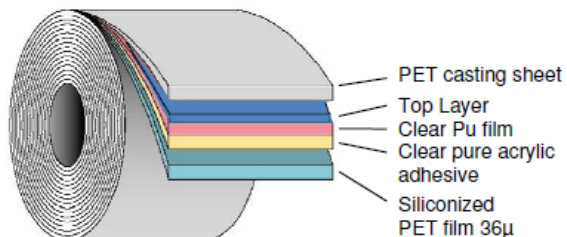
DURABILITY

Specialties

-is a range of high technology self-adhesive products, developed for specific industrial applications, particularly in the medical, optical or security fields, etc.

CrystalProtect 150

- consists of a Polyurethane film 150µ coated on one side with a permanent acrylic adhesive.
- is produced with a 36µm PET siliconized filmic liner.



Automotive Industry: specially designed to reduce stone chipping and insect damage on painted surfaces. Excellent for protecting side mirrors, car underbodies, spoilers, rocker panels, etc. Offers equal protection on new or used vehicles when applied to fully cured painted surface. Totally invisible thanks to its exceptional transparency, CrystalProtect 150 is designed to cover and protect large parts of vehicles.

Adhesion with Substrates

Metal / Aluminium	Medium	Acrylic / PET	Medium
Glass / Ceramics	Medium	Polystyrene	Medium
Painted Surface	Medium	PP / PE / PS	Medium
Wood / Board / Paper	Medium	Textile / Cotton	Low
Soft PVC	Low	Rubber / EPDM	Medium
Rigid PVC	Medium	Smooth Substrate	Medium
PC / ABS	Medium	Rough Substrate	Low

Resistant to water and detergents, including alcohol containing detergent products. Limited resistance (not recommended for continuous exposure) to solutions containing high concentrations of alcohols (> 20%), gasoline and esters. Not recommended for use in contact with aromatic hydrocarbons, chlorinated solvents, or ketones.
For further technical advice, please consult with Mactac

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

CrystalProtect 150, when professionally applied can be used outdoor for a period of 4 years (wearing away in normal road conditions).
 CrystalProtect 150 must be applied to painted surfaces that are **fully cured** according to the paint manufacturer. As this curing process is different by brand, please follow the paint manufacturer's instructions.

**ADHESIVE
DATA**

	TYPICAL VALUES (*)	TEST METHOD
Quick Tack (N/25mm) on Brushed stainless steel (ref. Nokoro 304 poli. N°4)	18	FTM 9
Peel 180°-20 min (N/25mm) On brushed stainless steel (ref. Nokoro 304 poli. N°4)	18	FTM 1
- after 20 minutes	20	FTM 1
- after 24 hours		
Shear (hours) 1kg-25 mm x 25mm	> 500	FTM 8

**CARRIER
DATA**

	TYPICAL VALUES (*)	TEST METHOD
Thickness (µ)	150	ISO 534
Tensile (N/15mm) MD (Min.)	100	DIN 53455
Elongation (%) MD (Max.)	800	DIN 53122

**TEMPERATURE
RESISTANCE**

Minimum application temperature	+ 10° C	
End-use temperature range	- 40° C + 120° C	
Short time T°	130° C	S.A.F.T.

For temperatures outside those quoted above, please consult with Mactac

**RELEASE
LINER**

PET film of 36 µm		ISO 536
200 µ		ISO 534

**THICKNESS
(Carrier+Adhesive)**

(*) Values given are typical and are not necessarily for use in specification.

IMPORTANT NOTICE

All Mactac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning Mactac products are based upon research which the Company believes to be reliable but such information do not constitute a warranty. Because of the variety of possible uses for Mactac products and the continuing development of new uses, the purchaser should carefully consider the fitness and performance of the product for each intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product or for incidental or consequential damages. All specifications are subject to change without prior notice.

