

X-Shield *X-film Paint Protection Film*

X-film paint protection film X-Shield is a transparent, clear thermoplastic Polyurethane film. The film is designed to protect vehicle surfaces against various influences, for example stones, salt, road dirt, insect stains, small to medium scratches, to protect against chemical pollution and the effects of the weather without any impairment of the original paint color.

X-film paint protection film X-Shield has a self-healing surface coating. Through this, small and medium scratches disappear when the film is heated slightly to 50 °C.

Product features:

- Provides invisible protection from damage caused by stones, salt, insects and other road debris
- "Self healing" top-coat that is scratch and crack resistant
- High-gloss finish
- Superior optical clarity
- Application on curved surfaces

Product application:

- Protection of cars, busses and trains especially
 - o Bumpers
 - o Side mirrors
 - o Engine bonnets
 - o Wheelhouses
 - o Fronts
 - o ...



Technical details:

Thickness:

- Protective film 55 μm
- Thermoplastic Polyurethan (TPU) 160 μm
- PET backing 85 μm

Durability:

- 8 years

Physical Performance:

Elongation rate at Break:	$\geq 70 \%$	GB/T 1040.1
Dimensional Stability MD:	$\leq 0.5 \text{ mm}$	FTM 14
Dimensional Stability CD:	$\leq 0.4 \text{ mm}$	FTM 14
Peel Adhesion:	$\leq 0.3 \text{ N}/25 \text{ mm}$	GB/T 2792
Initial Adhesive:	$\geq 9 \text{ (N}/25 \text{ mm)}$	FTM 9
24h, 180°Peel:	$\geq 15 \text{ (N}/25 \text{ mm)}$	GB/T 2792
Storage Aging Peel	$\geq 12 \text{ (N}/25 \text{ mm)}$	GB/T 2792
Application Aging Peel	$\geq 20 \text{ (N}/25 \text{ mm)}$	GB/T 2792

