

Iron-Clad Protection

TDK Hard Coat Film has achieved industry-leading scratch resistance, an excellent fingerprint wiping property, and a high slipping property. The product has been realized by applying a hard coat agent developed through the recording surface protection for optical disks and the coating technology cultivated through the development of magnetic tapes. It is best suited for the surface protection or shatter proofing of the cover-glass of smartphones, tablet terminals and notebook PCs.





Features

- Standard Type HR series Industry-leading scratch resistance
- □ Anti-Fingerprint Type HS series Fingerprints practically unnoticeable
- Low Friction Type HL series High slipping property comparable to that of surface treatment glass products

Standard Type HR series

Typical applications

 Surface protection or shatter proofing of the cover-glass of smartphones, tablet terminals, notebook PCs and mobile devices.

This Hard Coat Film has achieved excellent resistance against scratch and fingerprints as well as fingerprint wiping property.

It is best suited for the surface protection of devices such as smartphones, tablet terminals.

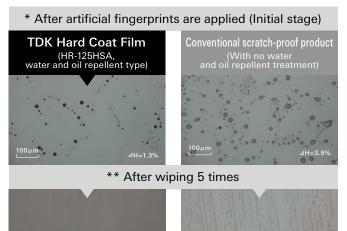
Protects from scratches with industry-leading scratch resistance

Scratch resistance test using steel wool (#0000,1kgf/cm²)



□ Highly resistant to fingerprints and easy to keep clean

Anti-fingerprint property test using artificial fingerprints



* Haze value change before and after application of artificial fingerprints (by TDK measurement method)
** Haze value change before application of artificial fingerprints and after wiping of the film surfaces with BEMCOT® wiper 5 times (TDK measurement method)

⊿H=0.4%

Anti-Fingerprint Type HS series

This Hard Coat Film has achieved excellent anti-fingerprint property. Even if fingerprints are applied, they are not noticeable. It is suitable for those who are worried fingerprint about smartphone or tablet terminals.

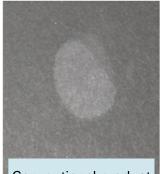
Water repellent and lipophilic type with water repellent function

Contact angle Pure water 92° Oleic acid 10°

Excellent pencil hardness and scratch resistance even though the lipophilic property

> Pencil hardness 2 ~ 3H (HS-100HSB, 100um base material product) Scratch resistance 5000cycles





Conventional product

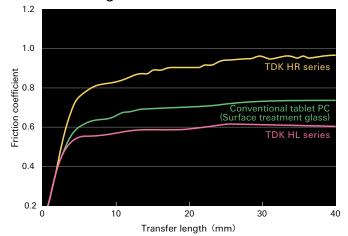
Low Friction Type HL series

This Low Friction Hard Coat Film has achieved a smooth touch feeling close to that of surface-treated glass. The smoothness could not be realized until now in the Hard Coat Film. It is most suitable touch screen, such as smartphones and tablet terminals.

□ Specification comparison

		TDK Standard Type HR series	Conventional tablet PC (Surface treatment glass)	TDK Low Friction Type HL series	
Contact angle	Pure water	110°	113°	103°	
	Oleic acid 10µI	73°	73°	50°	
Friction coefficient		0.82	0.63	0.55	

Friction coefficient measurement using tensile strength tester (TDK method)



Specification table

			Standard type		Anti-fingerprint type		Low friction type		
			HR series			HS series		HL series	
ltems		Test method	HR-075HSA	HR-100HSA	HR-125HSA	HS-075HSB	HS-100HSB	HL-075HSC	HL-100HSC
Base material thickness		-	75µm	100µm	125µm	75µm	100 <i>µ</i> m	75µm	100 <i>µ</i> m
Total light transmittance Tt ^{*1}		JIS K 7105	92.0%		92.0%		92.0%		
Haze ^{*1}		JIS K 7105	0.5%		0.5%		0.5%		
Contact angle	Pure water	Contact angle meter	110°		92°		103°		
	Oleic acid 10µI	Contact angle meter	73°		10°		50°		
scratch resistance (Steel wool resistance)		Steel wool : #0000	M		0 1	F000		E000-malas	
		Weight : 1kgf/cm	More than 10000cycles			5000cycles		5000cycles	
Pencil hardness		JIS K 5600-5-4	2H	2 ~ 3H	ЗН	2H	$2 \sim 3H$	2H	2 ~ 3H

*1: Each property has been evaluated after the glass lamination.

* The characteristic values shown above are typical values, not guaranteed values.

* For further information on product specifications, please contact our sales department.

Product configuration example



Application of a protection film on Hard Coat is also possible.

The product can be delivered either in the form of a sheet or a roll upon the request of the customer. The product can also be customized in various forms; please feel free to consult our sales persons.

Inquiries

Please contact us below for more details. http://www.global.tdk.com/contact/

Information in this catalog is effective as of March, 2013. Specifications and appearance of the product are subject to change without notice for improvement. R-BQ002E-A / 201303

