

## Antistatic UV-Curable Hard Coating Technology with Clevios™ Higher conductivity, better ESD protection



### Antistatic UV-Curable Hard Coating Technology Solvent-based RD Clevios™ P SB with high compatibility

#### RD Clevios™ P SB

Polythiophene (RD Clevios™ P SB 12)  
dispersed in anisole/butanol



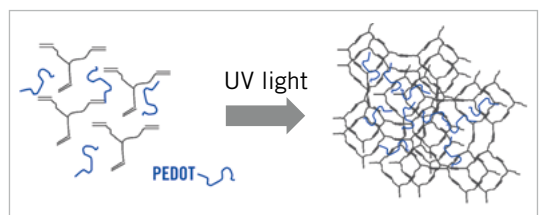
Acrylate monomers/polymers,  
photoinitiator, other additives,  
**organic solvents (e.g. MEK, PGME)**



Solvent-based, waterless  
PEDOT dispersions

Solvent compatibility*)	RD Clevios™ P SB 12
PGME	Yes
MEK	Yes
Ethylacetate	Yes
Butylacetate	Yes

\*) examples, not comprehensive



3D crosslinked network  
→ hard/stable

#### Coating



Formulation

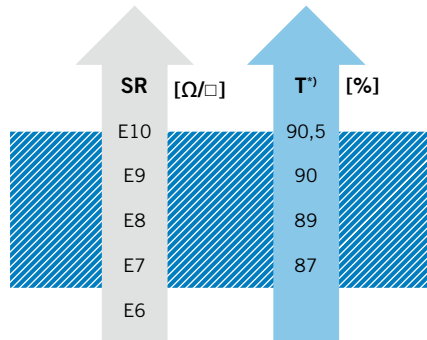


Coating



Drying and UV curing



## Performance Range of RD Clevios™ P SB in Antistatic Hard Coating



\*) incl. PET film (approx. 91% without coating)

## Antistatic Agents

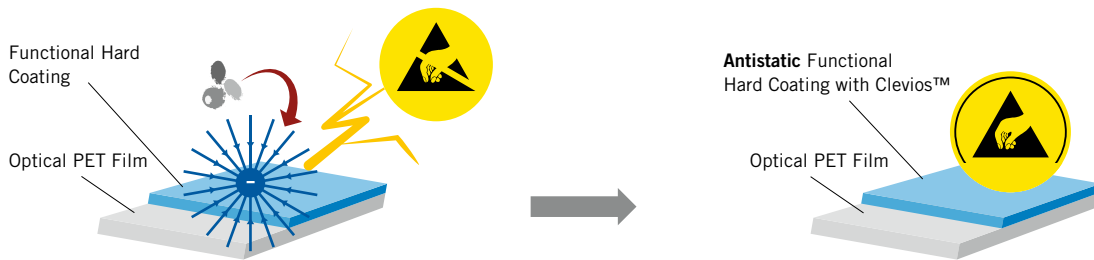
Superior performance of PEDOT-based Clevios™  
Higher conductivity, better ESD protection

		
Antistatic agents	Ionic*)	Electronic (PEDOT)
Sheet resistance	≥ E9 Ω/□	≥ E7 Ω/□
SR range	narrow	broad
Transmission	excellent	good
Durability	limited	high
Type	Molecular	Polymeric
Regulation (EHS)	often contains fluorine	fluorine-free

\*) e.g. ionic liquids

## Benefits of Antistatic UV-Curable Functional Hard Coat Films

RD Clevios™ P SB solves dust and electrostatic discharge (ESD) problems



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### Heraeus Epurio GmbH

Heraeusstrasse 12–14  
63450 Hanau, Germany  
clevios@heraeus.com

www.clevios.com | www.heraeus-epurio.com



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