

Technical Data Sheet

ORGACON S300 PFF-series

Water based formulations for antistatic and conductive film applications, PerFluoro Free

Agfa's ORGACON S300 PFF-series is manufactured from conductive polymer PEDOT/PSS and its coating formulations are ready to use. Typical application processes are slot die, Meyer bar and gravure coating. ORGACON S300 PFF formulations are designed for optimum performance on PET in particular and meet the requirements of several transparent electrode applications as an alternative to ITO. Because the requirements can vary depending on the field of application, the S300 PFF family offers three different products. S300 PFF for cost sensitive applications that do not require the highest conductivity. S315 PFF 1P for applications where higher conductivity combined with high transparency is required. S325 PFF (0,6% solids) and S325 PFF 1P (1% solids) for applications where increased stability of conductivity to environmental conditions is required. In addition to standard products, Agfa supplies tailor-made formulations and is happy to share its processing expertise to optimise your coating properties. Please contact us for further details.

TYPICAL VALUES

Property	Unit	Grade			
		S300 PFF	S315 PFF 1P	S325 PFF / S325 PFF 1P	
Specific conductivity	S/cm	160	352	223	332
SER @ WCT 40µm on PET dried @ 130°C/6min	Ω/sq	275	85	180	110
Stability Ratio R/Ro 500 hrs @ 60°C/95%RH		1,3	1,2	0.9	0,9
Stability Ratio R/Ro 500 hrs @ 85°C/85%RH		1,0	0.9	0.8	0.7
Stability Ratio R/Ro 250 hrs @,105°C		1,1	1.0	1.2	1.1
Visual Light Transmission (coating only)	%	>85	>80	>88	>80
Weight PEDOT/PSS	%	0,6	1	0,6	1
Acidity	pH	2,2	2	3	3
Viscosity @20°C, 100 1/s	mPAs	14	60	12	70
Surface tension	mN/m	<32	<32	<32	<32

STORAGE AND SHELF LIFE

Storage and Shelf life (all grades)			
Storage temperature (min-max)	°C	4 - 25	
Shelf life (stored at 4 - 25°C)	months	12	Starting from manufacturing date. Material kept in the original unopened container

PROCESSING GUIDELINES

- The S300 formulations can be diluted with deionized (DI) water or compatible solvent as required.
- Substrates that have been pre-coated or pre-treated with corona or plasma will show increased bond strength.
- Contact us for best practice advice

HEALTH AND SAFETY

Please check the Safety Data Sheet at sds.agfa.com

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CONTACT

For Sales or more Technical information, please contact us via e-mail at conductivematerials@agfa.com or via www.agfa.com/conductivematerials .

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