



# Technical Data Sheet

## Arcophane STS

### Heatstabilized polyester film

**Base(s)** Clear bases

### Technical data

Properties	Method	Unit	50 µm	75 µm	100µm	125µm	175µm
<b>General</b>							
Total thickness	Internal	µm	50	75	100	125	175
Relative density (23°)	ASTM D.1505	g/cm <sup>3</sup>	1.395				
Melting point	-	°C	260				
<b>Mechanical</b>							
Tensile strength at break	ASTM D.882	daN/mm <sup>2</sup>	20	18			17
Elongation at break	ASTM D.882	%	140			150	
<b>Thermal</b>							
Shrinkage MD 150°C-30mn	ASTM D.1204	%	<0.3	<0.2			
Shrinkage TD 150°C-30mn	ASTM D.1204	%	<0.2	<0.2			
<b>Electrical</b>							
Dielectrical breakdown	ASTM D.149	kV	8.0	10.0	12.0	13.5	17.5
AC Dielectrical strength	ASTM D.149	kV/mm	160	133	120	108	95
Surface resistivity 23°C 30 RH	ASTM D.257	Ω/cm <sup>2</sup>	10 <sup>16</sup>				
Volume resistivity 25°C	ASTM D.257	Ω.cm	10 <sup>18</sup>				
Dielectric constant 1 kHz	ASTM D.150	-	3.25				

MD: Machine direction

TD: Transversal direction

All typical values of properties relate to assessment made at time of manufacture.  
This specification is confidential and submitted to the other party for mutual agreement.

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