

solvene® 300 EAP

Electroactive Polymer

	solvene® 300/P300	Unit	Test Method
Physical form	Powder		
VDF	70	mol %	
TrFE	30	mol %	
MW	300	KDalton	_
MFI	4	g/10 min	ASTM D1238
Melting temperature	145	°C	ASTM D3418
Crystallization temperature	118	°C	ASTM D3418
Curie temperature	103	°C	ASTM D3418
Glass transition	-37	°C	ASTM D3418
Density	1.7	g/cm ³	ASTM D1895
Modulus	800	MPa	ASTM D638
d33* (measured by Berlincourt method at 110 Hz)	-22	pC/N	
Coercive field	65	V/µm	
Poling field (min)	150	V/µm	
Poling field (max)	250	V/µm	
Remnant polarization (max)	>4	µC/cm ²	
Breakdown voltage	>280	V/µm	ASTM D150
εr (25 °C, 1 MHz)	11		ASTM D3418

^{*} Values obtained poling at 200 V/µm, 25-µm thick film with printed Pedot-PSS electrodes.

www.solvay.com

SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa SpecialtyPolymers.Americas@solvay.com | Americas SpecialtyPolymers.Asia@solvay.com | Asia Pacific



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