

# 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 <sup>3</sup>	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 <sup>2</sup>	
Breakdown voltage	>280 V/μm	ASTM D150
ε <sub>r</sub> (25 °C, 1 MHz)	11	ASTM D3418

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

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