Technical Data Sheet

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solvene® 250 EAP

Electroactive Polymer

	Unit	solvene® 250/P300	solvene® 250/P400	Test Method
Physical form		Powder	Powder	
VDF	mol %	75	75	
TrFE	mol %	25	25	
MW	KDalton	300	400	–
MFI	g/10 min	4	0.6	ASTM D1238
Melting temperature	°C	146	146	ASTM D3418
Crystallization temperature	°C	120	120	ASTM D3418
Curie temperature	°C	116	116	ASTM D3418
Glass transition	°C	–37	–37	ASTM D3418
Density	g/cm^3	1.7	1.7	ASTM D1895
Modulus	MPa	1,000	1,000	ASTM D638
d33* (measured by Berlincourt method at 110 Hz)	pC/N	–24	–24	
Coercive field	V/µm	65	65	
Poling field (min)	V/µm	150	150	
Poling field (max)	V/µm	250	250	
Remnant polarization (max)	$\mu C/cm^2$	>6	>6	
Breakdown voltage	V/µm	>280	>280	ASTM D150
εr (25 °C, 1 MHz)		11	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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