

## Piezotech™ Polymers Range

### Typical Physical properties

	Grade						Method	
	FC 20	FC 25	FC 30	FC 45	FC 50	RT TS		RT FS
<b>Composition</b>								
	% TrFE					%CTFE	%CFE	
	20	25	30	45	50	9	8	1H & 19 F NMR
<b>Thermal properties</b>								
<b>Melting T range (°C)</b>	148 - 152	148 - 152	149 - 153	156 - 160	158 - 163	115 - 130	124 - 130	DSC (10 mg) Second heat 10°C/min  at 20°C
<b>Curie T (°C)</b>	131 - 141	112 - 123	96 - 106	57 - 62	58 - 63	-	-	
<b>Typical Annealing T (°C)</b>	135	135	135	145	145	105 - 120	114 - 120	
<b>C<sub>p</sub> (J/g/K)</b>				1,3				
<b>C<sub>pV</sub> (J/cm<sup>3</sup>/K)</b>				2,3				
<b>Molar mass characteristics</b>								
<b>Mw range (10<sup>3</sup> g/mol)</b>	400 - 530	370 - 530	380 - 540	350 - 550	350 - 550	410 - 575	425 - 625	SEC Chromatography - Solvent DMF - Refractometric detection - PS standard
<b>Dielectric Properties</b>								
<b>ε<sub>r</sub></b>	10 - 12		11 - 15		40	55	Capacity measurement at 1kHz	

\* Constants are given as indicative value, it depends strongly on processing conditions (annealing & poling) and on temperature