PIEZOTECH
ARKEMA GROUP

TECHNICAL DATA SHEET

PIEZOTECH FC™ 20

POWDER

	ACCEPTANCE RANGES	GUIDELINE VALUES	METHOD
COMPOSITION			
VF3 CONTENT *(mol %)*	**20 ± 1**		^{1}H NMR
THERMAL PROPERTIES			
CURIE TRANSITION *(°C)*	**131 - 141**		
TM *(°C)*		148 - 152	DSC
ENTHALPY OF CURIE TRANSITION *(J/g)*	-		(10 mg) Second heat 10°C/min
ENTHALPY OF MELTING *(J/g)*	-		
MOLAR MASS CHARACTERISTICS			
MFI *(230°C under 10 kg)*	**1 - 6**		ASTM D1238
MW *(KDA)* *Mass average molar mass*		400 – 530	SEC Chromatography Solvent DMF Refractometric detection PS standard
MN *(KDA)* *Number average molar mass*		180 - 250	
PI *Dispersity index (Mw/Mn)*		2.0 – 2.3	
FERROELECTRIC CHARACTERISTICS			
	TYPICAL VALUES		
REMNANT POLARIZATION *(mC/m²)*	70		Poled @ 150V/µm
COERCIVE FIELD *(V/µm)*	50		
SPONTANEOUS POLARIZATION *(mC/m²)*	80		
d_{33} *(pC/N)*	-27		Berlincourt (700N/100Hz)
RELATIVE PERMITTIVITY	11		Capacity measurement at 1kHz