Technical parameters of PTFE film

Performance	Item	Test Method	Unit	Numerical Value
Physical Property	Tensile Strength	D638	Mpa	14.4-35
	Elongation		%	200-400
	Proportion	D792	-	2.13-2.2
	Hardness (Shore)	D2240	-	D50-55
	Flexural modulus of elasticity	D790	GPa	0.50-0.55
	Tensile Modulus	D638	GPa	0.45-0.55
	Compressive Strength	D695	Mpa	11.8
	Coefficient of dynamic friction	0.93Mpa（7kgf/cm³）3m/min	-	0.10
	Coefficient of static friction	-	-	0.065
	Impact Strength	D256	J/M	160
	Water Absorption Rate	D570	%	0.01
	Oxygen Index	D2863	-	＞95
	3.2mm Thick Combustibility	UL94	-	V-0
Thermal Performance	Max Operating Temperature	-	℃	⩽260
	Min Operating Temperature	-	℃	⩾-200
	Melting Point	-	℃	327
	Thermal Conductivity	C177	W/m.k	0.25
	Specific Heat	DIN 52612	J/(℃.g)	1.05
	Thermal Deformation Ratio 1.81MPa(18.5kgf/cm²)	D648	℃	55
	Thermal Deformation Ratio 0.45MPa(4.6kgf/cm²)			121
	Coefficient of Thermal Expansion	25-100℃ MD	$\times 10^{-5}$/℃	11
		25-100℃ CD		10
		25-150℃ MD		12
		25-150℃ CD		11
		25-200℃ MD		14
		25-200℃ CD		12
		25-250℃ MD		17
		25-250℃ CD		16
Electrical Performance	Dielectric Constant 60HZ(Relative)	D150	pF/m	＜18.6 (＜2.1)
	Dielectric Loss Coefficient 60HZ		-	0.0002
	Dielectric Breakdown Strength (short-term)	D149	MV/m	19
	Anti Arc Characteristics	D495	Sec	＞300
	Volume Resistivity	D257	Ω.CM	＞10^{18}