

ESPECIFICAÇÕES PVDF

THERMAL PROPERTIES	WORKS NOMENCLATURE	RESULTS
Melting point (DIN 53 736)	Tm °C	172
Glass transition temperature (DIN 53 736)	Tg °C	-18
Heat distortion temperature after ISO-R 75, method A (DIN 53 461)	HDT/A °C	95
Heat distortion temperature after ISO-R 75, method B (DIN 53 461)	HDT/B °C	140
Maximum service temperature short term	°C	150
Thermal conductivity (23°C)	λ W/(K·m)	13
Specific heat (23°C)	c J/(g·K)	1,2
Coefficient of linear thermal expansion (23°C, ASTM D 696, DIN 53 752, ASTM E 831)	α 10 ⁻⁵ 1/K	140
ELECTRICAL PROPERTIES	WORKS NOMENCLATURE	RESULTS
Dielectric constant (106 Hz, ASTM D 150, DIN 53 483, IE-250)	ϵ_r -	8
Dielectric loss factor (106 Hz, ASTM D 150, DIN 53 483, IE-250)	$\tan \delta$ -	0,06
Volume resistance (ASTM D 257, EC 93, DIN IEC 60093)	ρ_D $\Omega \cdot \text{cm}$	10 ¹⁴
Surface resistance (ASTM D 257, EC 93, DIN IEC 60093)	RO Ω	10 ¹³
Dielectric strength (ASTM D 149, IEC-243, VDE 0303 part 2)	Ed kV/mm	40
Resistance to tracking (DIN 53 480, VDE 0303 part 1)	Grade	KA 1
MISCELLANEOUS DATA	WORKS NOMENCLATURE	RESULTS
Moisture absorption to equilibrium 23 °C/50% relative humidity (DIN EN ISO 62)	W(H2O) %	<0,05
Water absorption at saturation DIN EN ISO 62)	WS %	<0,05
Resistance to hot water, washing soda	-	+
Flammability acc. to UL standard 94	-	Vo
Resistance to weathering**	-	+