Dexnyl© PEI SF, Film_22

Properties & characteristics:
radiation resistant
good mechanical properties
self-extinguishing
low smoke density
weathering resistant
good hydrolysis resistance

PHYSICAL PROPERTIES	Test Method	Unit	Value
Density	ISO 1183	g/cm³	1,27
Glass Transition Temperature	ISO 11357	°C	215
Crystalline Melting Point		°C	-
MECHANICAL PROPERTIES			
Yield Tensile Strength at 23°C	ISO 527	N/mm²	90
Yield Tensile Elongation at 150°C	ISO 527	N/mm²	45
Tensile Strength at 23°C	ISO 527	N/mm²	100
Tensile Strength at 150°C	ISO 527	N/mm²	50
Tensile Elongation at 23°C	ISO 527	%	100
Tensile Elongation at 150°C	ISO 527	%	80
Tensile Modulus	ISO 527	N/mm²	2400
Initial Tear Resistance	E60674	N	120
Tear Propagation Resistance	ISO 8296	N/mm²	25
ELCTRICAL PROPERTIES			
Dielectric Constant at 1kHz/23°C	IEC 250	-	3,4
Dissipation Factor 1kHz/ 23°C	IEC 250	-	0,0038
Volume Resistivity	IEC 93	OHM.cm	1,00E+18
Surface Resistivity	IEC 93	OHM	1,00E+16
Dielectric Strength	IEC 243	kV/mm	180
CTI	IEC 112	V	175
THERMAL PROPERTIES			
Long-term service temperature	UL746B	°C	170
Flammability	UL94	VTM/µ	0/50
Thermal expansion coeff. x 10³	E831	1/°K	0,056
Thermal conductivity x 10²	DIN 52612	W/mK	22

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