

TechnicalData Sheet

PP GF30

Physical Properties	Value	Unit	Standard
Density	1.15	g/cm ³	ISO 1183
Moisture pick-up till saturation (in normal climate 23 °C / 50% r.h.)	-	%	ISO 62
Water absorption tillsaturation (in waterat23°C)	0.10	%	ISO 62

Mechanical Properties			
Tensilestressatyield[v= 50mm/min]	85	MPa	ISO 527-2
Tensilestress atbreak[v =5mm/min]	-	MPa	ISO 527-2
Nominalpercentage elongationatbreak	3	%	ISO 527-2
Tensilemodulus ofelasticity	6500	MPa	ISO 527-2
Flexural modulusof elasticity	5500	MPa	ISO 178
Ballindentation hardness (valueat30sec.)	110	MPa	ISO 2039-1
Rockwell hardness (measured with test pieces 10 mm thick)	-		ISO 2039-2
Charpyimpact strength (+23 °C)	40	kJ/m ²	ISO 179/1eU
Charpyimpact strength -notched (+23 °C)	9	kJ/m ²	ISO 179/1eA

Electric Properties			
Specific insulationresistance[≥]	1012	Ohm ·m	IEC 60093
Specificsurfaceresistance[≥]	-	Ohm	IEC 60093
Dielectricconstant(at 1 MHz)	-	106 Hz	IEC 60250
Dielectric constant(at 100Hz)	-	102 Hz	IEC 60250
Dissipationfactor (at 1MHz)	-	106 Hz	IEC 60250
Dissipation factor (at100Hz)	-	102 Hz	IEC 60250
Dielectric strengthK20/K20(intransformeroil)	-	kV/mm	IEC 60243-1
Comparative trackingindex(CTI)	-		IEC 60112

ThermalProperties			
Temperature for usage in air (max. short term)	140	°C	
Temperaturefor usageinair(max. lasting)	100	°C	
Minimumservicetemperaturein air	-	°C	
Heat distortiontemperature (HDTA process)	140	°C	ISO 75-2
Coefficient oflinearexpansion (at length, 23 – 60 °C)	-	10-4/K	ISO 11359
Thermal conductivity (+23 °C)	0.28	W/(K· m)	DIN52612
Flammability according UL Standard (thickness 3and6mm)	HB	Class	UL94
Vicatsoftening temperature(VST/B/50)	130	°C	ISO 306
Meltingpoint(DSC, 10 K/min)	165	°C	ISO 3146