

For Antenna elements or Reflector XYRON™ DG series(PPS/PPE) vs PPS

Strength : light weight, Low Dk/Df, Plating, Moldability

					XYRON™ DG040	XYRON™ DG141	XYRON™ DG235	PPS/GF
Filler contents(wt%)					40	40	30	40
Mechanical Properties	Specific Gravity	-	ISO 1183	23°C	1.52	1.52	1.52	1.52
	Moisture Absorption	wt%	ISO 62	Immersion 23°C water for 24Hr	0.04	0.06	0.05	0.02
	Tensile Strength	MPa	ISO 527-2	23°C/50% RH	66	88	122	165
	Weld Strength	MPa	AsahiKasei Method	23°C/50% RH	24	15	30	49
	Flexural Modulus	MPa	ISO 178	23°C/50% RH	10.0	12.8	10.2	14.7
	Charpy Impact Strength	kJ/m2	ISO 179	23°C/50% RH	2	3	5	9
Electrical Properties	Dielectric Constant	-	IEC 60250	1GHz	3.8	3.7	3.6	4.4
	Dissipation Factor	-	IEC 60250	1GHz	0.008	0.005	0.004	0.005
Electrical Properties	Mold Shrinkage(MD/TD)	%	AsahiKasei Method	23°C/50% RH	0.34/0.38	0.31/0.54	0.29/0.69	0.30/0.67
	Mold Shrinkage anisotropy	-	AsahiKasei Method	23°C/50% RH	1.1	1.7	2.4	2.2
	CLTE(MD/TD)	X10-5/°C	ISO 11359	-30~65°C	2.2/3.1	2.1/4.2	1.7/5.4	1.5/5.4
	CLTE anisotropy	-	-	-	1.4	2.0	3.2	3.6
Other Properties	Heat Deflection Temperature	°C	ISO 75-1	1.8MPa	188	239	247	>260
	Plating				+	+	+	0
	Moldability (Flash)				+	+	+	-

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. These data may be changed because of improvement in properties