

Dupilon

Polycarbonate Resin

Polycarbonate Resin				Glass Fiber Reinforced (For Mobile Phone Housing)	
Properties	Test Method	Terms	Units	GS2010MPH	GPX2010PH
				High Impact Strength	Phosphoric acid High Impact
				GF	GF
				10%	10%
				-	-
Physical properties					
Density	ISO 1183	-	g/cm ³	1.26	1.26
Water absorption		23degC, 50%RH 23degC, Underwater	%	- 0.14	- 0.14
Rheological properties					
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	15	17
Melt Volume-flow Rate			cm ³ /10min	14	16
			degC	300	300
		Load	kgf	1.20	1.20
Moulding shrinkage (3.2mmt)	-	MD TD	%	0.3 - 0.5 0.3 - 0.5	0.3-0.5 0.3-0.5
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	-	MPa	2900	3000
Yield stress			MPa	52	55
Yield strain			%	5	4.8
Nominal strain at break			%	10	10
Stress at 50% strain			MPa	-	-
Stress at break			MPa	-	-
Strain at break	%	-	-		
Flexural strength	ISO 178	-	MPa	85	90
Flexural modulus				2500	2800
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	NB	NB
Charpy notched impact strength		23 degC	kJ/m ²	10	8
Thermal properties					
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	122 134	113 122
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	5.8.E-05 5.8.E-05	- -
Flammability	UL94	-	-	-	V-1(0.75mm)
Electrical properties					
Relative permittivity	IEC 60250	100Hz 1MHz	-	-	-
Dissipation factor	IEC 60250	100Hz 1MHz	-	-	-
Volume resistivity	IEC 60093	-	ohm-m	-	-
Surface resistivity	IEC 60093	-	ohm	-	-
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	-	-
Comparative tracking index (CTI)	UL746A	-	-	same as 3	-
				GSH2010PH (HB 0.4mm)	

The listed properties are portrayed as general information only and are not product specifications.

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