Mitsubishi Engineering-Plastics Corporation

Iupilon

Polycarbonate Resin

Properties	Test Method	Terms	Units	Glass Fiber Reinforced (Low Warpage) GSH2030R2 K807	GSH2030R2 991J	GSH2030FT
				GF	GF	GF
				30%	30%	30%
				-	-	-
Physical properties						
Density	ISO 1183	-	g/cm^3	1.43	1.43	1.43
Water absorption		23degC, 50%RH 23degC, Underwater	%	- 0.09	- 0.09	- 0.09
Rheological properties						
Melt Mass-flow Rate	ISO 1133		g/10min	15	8.8	7.0
Melt Volume-flow Rate			cm^3/10min	14	7.0	5.2
		Temperature	degC	300	300	300
		Load	kgf	1.20	1.20	1.20
Moulding shrinkage (3.2mmt)	-	MD	%	0.2 - 0.4	0.3 - 0.5	0.15 - 0.35
		TD		0.2 - 0.4	0.3 - 0.5	0.15 - 0.35
Mechanical properties						
Tensile modulus	ISO 527-1 , 527-2	-	MPa	5100	4400	6200
Yield stress				-	-	-
Yield strain			%	-	-	-
Nominal strain at break				-	-	-
Stress at 50% strain			MPa	-	-	-
Stress at break				51	58	69
Strain at break			%	1.9	2.5	2.5
Flexural strength	ISO 178	-	MPa	97	103	126
Flexural modulus				4800	3900	6200
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m^2	27	30	32
Charpy notched impact strength		23 degC	kJ/m^2	3	6	4
Thermal properties						
Temperature of deflection	ISO 75-1	1.80MPa	degC	132	136	139
under load	, 75-2	0.45MPa		140	143	145
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	-	-	-
		TD		-	-	-
Flammability	UL94	-	-	HB(0.4mm)	HB(0.4mm)	HB(0.4mm)
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	MV/m	-	-	-
		2mmt		-	-	-
		3mmt		-	-	-
Comparative tracking index (CTI)	UL746A	-	-	same as 4	same as 4	same as 4

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

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