

NOVADURAN®

Polybutylene Terephthalate Resin

				Reinforced UL-HB type	
Properties	Test Method	Terms	Units	5010F6X4	5010GP20
				Low Warpage	High Tracking Resistance
				GF+F 40	GF+F 40
Physical properties					
Density	ISO 1183	-	g/cm ³	1.62	1.49
Water absorption	-	23degC, Underwater	%	0.08	0.07
Dimensional properties					
Moulding shrinkage (1mmt)	-	MD TD	%	0.5 1.2	0.3 1.4
Moulding shrinkage (3mmt)	-	MD TD	%	0.8 1.6	0.4 1.6
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	-	MPa	6800	9000
Yield stress			-	-	
Yield strain			%	-	-
Nominal strain at break			-	-	
Stress at 50% strain			MPa	-	-
Stress at break	ISO 178	-	MPa	95	99
Strain at break			%	2.0	2.0
Flexural strength	ISO 178	-	MPa	150	150
Flexural modulus			MPa	6600	8900
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	22	32
Charpy notched impact strength		23 degC	kJ/m ²	5	8
Thermal properties					
Melting temperature	ISO 11357-3		degC	224	224
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	184	192
		0.45MPa	degC	212	218
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	4.E-05	3.E-05
		TD		8.E-05	6.E-05
Flammability	UL94	0.4mmt	-	-	-
Flammability	UL94	0.8mmt	-	HB	HB
Flammability	UL94	1.6mmt	-	-	-
Flammability	UL94	3.2mmt	-	-	-
Electrical properties					
Relative permittivity	IEC 60250	1MHz	-	3.5	3.6
Dissipation factor	IEC 60250	1MHz	-	0.016	0.012
Volume resistivity	IEC 60093	-	ohm-m	1.E+14	1.E+14
Surface resistivity	IEC 60093	-	ohm	1.E+15	1.E+15
Electric strength	IEC 60243-1	1mmt	MV/m	30	43
		2mmt		25	-
		3mmt		-	-
Comparative tracking index	UL746A	-	-	-	-

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

Mitsubishi Engineering-Plastics disclaims any liability in connection with the use of the information in