

< Specification Data >

PBT Resin "Novaduran 5010G30 "

* GF(30%) reinforced UL-HB type



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Properties	Test Methods	Units	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.52
Water Absorption (23°C, Underwater)		%	0.07
Rheological Properties			
Melt Mass-flow Rate (250°C, 2.16kg)	ISO 1133	g/10min	20
Melt Volume-flow Rate (250°C, 2.16kg)		cm ³ /10min	15
Molding Shrinkage (1mmt) (MD)		%	0.2
(TD)			0.7
(3mmt) (MD)		%	0.3
(TD)			1.0
Mechanical Properties			
Tensile Modulus	ISO 527-1	MPa	9500
Stress at Break	ISO 527-2		130
Strain at Break			2.7
Flexural Strength	ISO 178	Mpa	210
Flexural Modulus			8900
Charpy Impact Strength (23°C)	ISO 179-1	kJ/m ²	59
Charpy Notched Impact Strength (23°C)	ISO 179-2		10
Thermal Properties			
Melting Temperature	ISO11357-3	°C	224
Temperature of Deflection Under Load (1.80MPa) (0.45MPa)	ISO 75-1	°C	202
	ISO 75-2		220
Coefficient of Linear Thermal Expansion (MD) (TD)	ISO 11359-2	1/°C	3.0E-05
			7.0E-05
Flammability	UL94		HB/0.8mmt
Electrical Properties			
Relative Permittivity (100Hz)	IEC 60250		-
(1MHz)			3.4
Dissipation Factor (100Hz)			-
(1Mhz)			0.016
Volume Resistivity	IEC 60093	Ω·m	1E+14
Surface Resistivity		Ω	1E+15
Electric Strength (1mmt)	IEC 60243-1	MV/m	27
(3mmt)			24

All data in this table are typical values obtained under MEP's standard test methods, and may not be applicable for those which are used under different conditions. These are not intended for warranty of customer's production achievement.