

< Specification Data >

PBT Resin "Novaduran 5007 "



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Properties	Test Methods	Units	Values
Physical Properties			
Density	ISO 1183	g/cm ³	1.31
Water Absorption (23°C, Underwater)		%	0.08
Rheological Properties			
Melt Mass-flow Rate (250°C, 2.16kg)	ISO 1133	g/10min	-
Melt Volume-flow Rate (250°C, 2.16kg)		cm ³ /10min	180
Molding Shrinkage (3.2mmt) (MD)		%	1.5
(TD)			1.4
Mechanical Properties			
Tensile Modulus	ISO 527-1	MPa	2400
Yield Stress	ISO 527-2		54
Yield Strain		%	4.4
Nominal Strain at Break			15
Flexural Strength	ISO 178	Mpa	83
Flexural Modulus			2360
Charpy Impact Strength (23°C)	ISO 179-1	kJ/m ²	NB
Charpy Notched Impact Strength (23°C)	ISO 179-2		3.0
Thermal Properties			
Temperature of Deflection Under Load (1.80MPa)	ISO 75-1		55
	ISO 75-2		136
Coefficient of Linear Thermal Expansion (MD)	ISO 11359-2	1/°C	1.0E-4
(TD)			1.0E-4
Electrical Properties			
Relative Permittivity (100Hz)	IEC 60250		-
(1MHz)			3.2
Dissipation Factor (100Hz)			-
(1Mhz)			0.020
Volume Resistivity	IEC 60093	ohm-m	1E+14
Surface Resistivity		ohm	1E+15
Electric Strength (1mmt)	IEC 60243-1	MV/m	22
(3mmt)			17
Comparative Tracking Index	IEC 60112		600

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.