


# NOVADURAN®

Polybutylene Terephthalate Resin **5010GN6-30M4**

 **MEP Europe GmbH**  
Mitsubishi Engineering-Plastics Co  
Prinzenalle 13, D-40549  
Düsseldorf, Germany

Properties	Test Method	Terms	Units	5010GN6-30M4
				GF 30
<b>Physical properties</b>				
Density	ISO 1183	-	g/cm <sup>3</sup>	<b>1.62</b>
Water absorption	-	23degC, Underwater	%	<b>0.08</b>
<b>Rheological properties</b>				
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	<b>14</b>
Melt Volume-flow Rate			cm <sup>3</sup> /10min	<b>10</b>
			degC	<b>250</b>
		Load	kg	<b>2.16</b>
Moulding shrinkage(2mmt)	-	MD TD	%	<b>0.3</b>
				<b>1.2</b>
<b>Mechanical properties</b>				
Tensile modulus	ISO 527-1 , 527-2	-	MPa	-
Yield stress			-	
Yield strain			%	-
Nominal strain at break			-	
Stress at 50% strain			MPa	-
Stress at break			%	<b>140</b>
Strain at break				<b>2.0</b>
Flexural strength	ISO 178	-	MPa	<b>200</b>
Flexural modulus				<b>9000</b>
Charpy notched impact strength	, 179-2	23 degC	kJ/m <sup>2</sup>	<b>9</b>
<b>Thermal properties</b>				
Melting temperature	ISO 11357-3		degC	<b>224</b>
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	<b>205</b>
		0.45MPa		<b>220</b>
Coefficient of Linear thermal expansion	ISO 11359-2	MD	*10 <sup>-5</sup> 1/degC	<b>3.E-05</b>
		TD		<b>6.E-05</b>
Flammability	UL94	0.8mmt	-	<b>V-0</b>
<b>Electrical properties</b>				
Relative permittivity	IEC 60250	100Hz	-	-
		1MHz	-	<b>3.6</b>
Dissipation factor	IEC 60250	100Hz	-	-
		1MHz	-	<b>0.015</b>
Volume resistivity	IEC 60093	-	ohm-m	<b>1.E+14</b>
Surface resistivity	IEC 60093	-	ohm	<b>1.E+15</b>
Electric strength	IEC 60243-1	1mmt	MV/m	<b>24</b>

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 this table.