

# NOVAREX® M7027BF

## Property Data

PC

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Melt volume-flow rate	<b>2.3</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>300</b>	°C	ISO 1133
Load	<b>1.2</b>	kg	ISO 1133
Molding shrinkage (parallel)	<b>0.6</b>	%	ISO 294-4
Molding shrinkage (normal)	<b>0.6</b>	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	<b>2300</b>	MPa	ISO 527-1/-2
Yield stress	<b>62</b>	MPa	ISO 527-1/-2
Yield strain	<b>6</b>	%	ISO 527-1/-2
Nominal strain at break	<b>&gt;50</b>	%	ISO 527-1/-2
Flexural modulus	<b>2300</b>	MPa	ISO 178
Flexural strength	<b>93</b>	MPa	ISO 178
Charpy impact strength (+23°C)	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>70</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
Temp. of deflection under load (1.80 MPa)	<b>129</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	<b>0.65</b>	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>0.66</b>	E-4/°C	ISO 11359-1/-2
<b>ELECTRICAL PROPERTIES</b>			
Relative permittivity (100Hz)	<b>3.1</b>	-	IEC 60250
Relative permittivity (1 MHz)	<b>3.1</b>	-	IEC 60250
Dissipation factor (100 Hz)	<b>6</b>	E-4	IEC 60250
Dissipation factor (1 MHz)	<b>90</b>	E-4	IEC 60250
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 60093
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 60093
Electric strength	<b>17</b>	kV/mm	IEC 60243-1
Comparative tracking index (PLC)	<b>2</b>	class	UL 746A
<b>OTHER PROPERTIES</b>			
Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183

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