

NOVADURAN 5010GN6-30M8AM

PBT-GF30

Mitsubishi Engineering-Plastics Corporation

Material Data Center offers the following functions for **NOVADURAN 5010GN6-30M8AM**:

unit conversion, PDF datasheet print, comparison with other plastics, snap fit calculation, beam deflection calculation

Rheological properties	Value	Unit	Test Standard
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ISO Data

Melt volume-flow rate, MVR	20	cm ³ /10min	ISO 1133
Temperature	250	° C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
Melt flow index, MFI	27	g/10min	ISO 1133
MFI temperature	250	° C	ISO 1133
MFI load	2.16	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
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ISO Data

Tensile Modulus	10000	MPa	ISO 527-1/-2
Stress at break	130	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Charpy impact strength (+23° C)	45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23° C)	10	kJ/m ²	ISO 179/1eA
Flexural modulus (23° C)	9800	MPa	ISO 178

Thermal properties	Value	Unit	Test Standard
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ISO Data

Melting temperature (10° C/min)	224	° C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205	° C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220	° C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60	E-6/K	ISO 11359-1/-2

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Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
UL recognition	UL	–	–
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	IEC 60695-11-10
UL recognition	UL	–	–

Electrical properties	Value	Unit	Test Standard
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ISO Data

Relative permittivity, 1MHz	3.2	–	IEC 60250
Dissipation factor, 1MHz	150	E-4	IEC 60250
Volume resistivity	1E14	Ohm*m	IEC 60093
Surface resistivity	1E15	Ohm	IEC 60093
Electric strength	24	kV/mm	IEC 60243-1
Comparative tracking index	315	–	IEC 60112

Other properties	Value	Unit	Test Standard
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ISO Data

Water absorption	0.1	%	Sim. to ISO 62
Density	1620	kg/m ³	ISO 1183

Characteristics

Special Characteristics

Flame retardant

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