

Product Texts

Injection Molding, 30% Glass Reinforced, Heat Stabilized, Hydrolysis resistant, Recycled Content

ISO 1043 PA66-GF30

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9700 / 6100	MPa	ISO 527
^[C] Stress at break	180 / 120	MPa	ISO 527
^[C] Strain at break	3.5 / 8	%	ISO 527
^[C] Charpy impact strength, +23°C	75 / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	65 / 75	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / 20	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	- / 10	kJ/m ²	ISO 179/1eA
^[C] Puncture - maximum force, +23°C	896 / 1070	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	776 / -	N	ISO 6603-2
^[C] Puncture energy, +23°C	3.1 / 4.7	J	ISO 6603-2
^[C] Puncture energy, -30°C	1.9 / -	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	262 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	245 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
^[C] Oxygen index	26 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4 / 12	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.6 / 4.5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	80 / 3000	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	160 / 900	E-4	IEC 62631-2-1
^[C] Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
^[C] Electric strength	35 / 30	kV/mm	IEC 60243-1
^[C] Comparative tracking index	450 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	5.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2 / *	%	Sim. to ISO 62
^[C] Density	1360 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	153 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

Hydrolytically Stable

Certifications

Recycled Resin Content

Applications

Automotive, Refrigeration

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 280 - 300 °C

Mold temperature: 80 - 120 °C