

Product Texts

Injection Molding, 30% Glass Reinforced, Flame Retardant (halogen free), Heat Stabilized

ISO 1043 (PA66+PA6)-GF30 FR(40+30)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	10500 / 6500	MPa	ISO 527
^[C] Stress at break	135 / 85	MPa	ISO 527
^[C] Strain at break	2.8 / 5.4	%	ISO 527
^[C] Charpy impact strength, +23°C	65 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / -	kJ/m ²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	224 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
^[C] Burning Behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.5 / *	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.9 / 7.7	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.4 / 4	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	130 / 1130	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	135 / 575	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / 2.5E11	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 3.3E14	Ohm	IEC 62631-3-2
^[C] Electric strength	40 / 34	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	4.4 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.4 / *	%	Sim. to ISO 62
^[C] Density	1420 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	135 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant, Halogen-free, Heat stabilized or stable to heat

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 - 0.07%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 265 - 285 °C

Mold temperature: 80 - 100 °C