

**Product Texts**

30% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow

ISO 1043 PA6-GF30 FR(17)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Density of melt	1150	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.26	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	1900	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	1.2E-7	m <sup>2</sup> /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	12000 / 8300	MPa	ISO 527
<sup>[C]</sup> Stress at break	155 / 105	MPa	ISO 527
<sup>[C]</sup> Strain at break	2.3 / 3.6	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	55 / 55	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	60 / 60	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	12 / 14	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	12 / 12	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	205 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Oxygen index	30 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3.5 / 10	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3.4 / 4	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	60 / 3000	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	120 / 700	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	33 / 30	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	325 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	4.5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	1.3 / *	%	Sim. to ISO 62

[C] Density

**1550 / -**kg/m<sup>3</sup>

ISO 1183

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat

**Delivery form**

Pellets

**Regional Availability**

North America, Europe, Asia Pacific

**Other text information****Injection molding**[Injection Molding Recommendations](#)