

Product Texts

30% Glass Reinforced, High Flow, Flame Retardant, Halogen free and free of red phosphorous

ISO 1043 PA46-GF30 FR

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	12500 / 8000	MPa	ISO 527
^[C] Stress at break	140 / 100	MPa	ISO 527
^[C] Strain at break	1.7 / 2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	35 / 40	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	9 / 9	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	295 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	75 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	290 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	290 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	35 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	45 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	4.1 / 4.9	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	250 / 700	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13 / 1E10	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	33 / 31	kV/mm	IEC 60243-1
^[C] Comparative tracking index	425 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	1.8 / *	%	Sim. to ISO 62
^[C] Density	1530 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Granules

Special Characteristics

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

Regional Availability

North America, Europe, Asia Pacific

Additives

Release agent

Other text information**Injection molding**

[Injection Molding Recommendations](#)

[Hot runner recommendations for molding high heat performance Engineering Materials](#)

[Steel recommendations for molds screws and barrels](#)

[Supporting document for Stanyl quality processing](#)

[Trouble shooting guideline for injection molding](#)