

Product Texts

9% Glass Reinforced, Flame Retardant

ISO 1043 PC-GF9 FR(76)

[XANTAR Polycarbonate & Blends, your global partner for innovative added value](#)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	6	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
^[C] Density of melt	1090	kg/m ³	-
^[C] Thermal conductivity of melt	0.26	W/(m K)	-
^[C] Spec. heat capacity of melt	1620	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.48E-7	m ² /s	-
^[C] Ejection temperature	144	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3100	MPa	ISO 527
^[C] Yield stress	60	MPa	ISO 527
^[C] Yield strain	5	%	ISO 527
^[C] Nominal strain at break	15	%	ISO 527
^[C] Puncture - maximum force, +23°C	4200	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	4400	N	ISO 6603-2
^[C] Puncture energy, +23°C	40	J	ISO 6603-2
^[C] Puncture energy, -30°C	30	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	145	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	150	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	45	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
^[C] Oxygen index	35	%	ISO 4589-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.31	%	Sim. to ISO 62
^[C] Density	1250	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	100	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-

XANTAR™ XRM 5010

PC-GF9 FR(76)

Mitsubishi Engineering-Plastics Corporation

Melt temperature	290 - 320	°C	-
Mold temperature	50 - 110	°C	-
Zone 1	270 - 285	°C	-
Zone 2	280 - 300	°C	-
Zone 3	290 - 310	°C	-
Nozzle temperature	280 - 295	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

Europe

Additives

Release agent

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