

**Product Texts**

20% Glass Reinforced, Flame Retardant

ISO 1043 (PC+ABS)-GF20 FR(40)...

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Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	20	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1170	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.25	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	1800	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	1.2E-7	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	95	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	4800	MPa	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	110	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	120	°C	ISO 306
<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> Oxygen index	32	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 1MHz	3	-	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	>1E15	Ohm	IEC 62631-3-2
<sup>[C]</sup> Comparative tracking index	175	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.6	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.2	%	Sim. to ISO 62
<sup>[C]</sup> Density	1340	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	70	°C	ISO 294

[C]: CAMPUS

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>100</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Processing humidity	<b>≤0.03</b>	%	-
Melt temperature	<b>240 - 270</b>	°C	-
Mold temperature	<b>50 - 80</b>	°C	-
Zone 1	<b>230 - 250</b>	°C	-
Zone 2	<b>235 - 255</b>	°C	-
Zone 3	<b>240 - 260</b>	°C	-
Nozzle temperature	<b>230 - 250</b>	°C	-

## Characteristics

### Processing

Injection Molding

### Special Characteristics

Flame retardant

### Delivery form

Pellets

### Regional Availability

Europe

### Additives

Release agent

## Other text information

### Injection molding

[Injection Molding Recommendations](#)