

Product Texts

Structural Foam

ISO 1043 PC FR

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Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	5	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2000	MPa	ISO 527
^[C] Yield stress	37	MPa	ISO 527
^[C] Yield strain	6	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	127	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	137	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	15	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	4.8	mm	-
Yellow Card available	yes	-	-
^[C] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	6.0	mm	-
Yellow Card available	yes	-	-
^[C] Burning Behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	4.8	mm	-
Yellow Card available	yes	-	-
^[C] Oxygen index	35	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.3	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.3	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	8	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	90	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	>1E15	Ohm	IEC 62631-3-2
^[C] Comparative tracking index	175	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.35	%	Sim. to ISO 62
^[C] Density	1220	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	290	°C	ISO 294

XANTAR™ SF 22 (Foamed)

PC FR

Mitsubishi Engineering-Plastics Corporation

Injection Molding, mold temperature	90	°C	ISO 294
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[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	290 - 310	°C	-
Mold temperature	40 - 95	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Nozzle temperature	270 - 290	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

Europe

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