

Product Texts

Impact Modified, Flame Retardant, High Flow

ISO 1043 PC-I FR(16)

[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	30	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
^[C] Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
^[C] Density of melt	1010	kg/m ³	-
^[C] Thermal conductivity of melt	0.24	W/(m K)	-
^[C] Spec. heat capacity of melt	1710	J/(kg K)	-
^[C] Eff. thermal diffusivity	1.4E-7	m ² /s	-
^[C] Ejection temperature	128	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2200	MPa	ISO 527
^[C] Yield stress	55	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	115	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	135	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	65	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] Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Yellow Card available	yes	-	-
^[C] Burning Behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-
Yellow Card available	yes	-	-
^[C] Oxygen index	33	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	2.9	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	2.8	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	6.6	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	92	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] Electric strength	29	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.35	%	Sim. to ISO 62

XANTAR™ MX 1000

PC-I FR(16)

Mitsubishi Engineering-Plastics Corporation

[C] Density	1190	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
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	70 - 100	°C	-
Zone 1	255 - 265	°C	-
Zone 2	265 - 275	°C	-
Zone 3	270 - 280	°C	-
Nozzle temperature	260 - 270	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion, Thermoforming

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant, Platable, High impact or impact modified, Heat stabilized or stable to heat

Regional Availability

Europe

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