

**Product Texts**

Impact Modified, Flame Retardant, Chlorine/Bromine free

ISO 1043 PC-I 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	21	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1010	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.23	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	1710	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	1E-7	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	115	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2200	MPa	ISO 527
<sup>[C]</sup> Yield stress	55	MPa	ISO 527
<sup>[C]</sup> Yield strain	6	%	ISO 527
<sup>[C]</sup> Nominal strain at break	>50	%	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	115	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	135	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2
<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	33	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	3.1	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	3	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	18	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	82	E-4	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> Electric strength	29	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	325	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.35	%	Sim. to ISO 62
<sup>[C]</sup> Density	1190	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**XANTAR™ MX 1004**

PC-I FR(40)

Mitsubishi Engineering-Plastics Corporation

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> 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

**Special Characteristics**

Flame retardant, High impact or impact modified

**Delivery form**

Pellets

**Regional Availability**

Europe

**Additives**

Release agent

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