

**Product Texts**

Flame Retardant, Vicat 120°C, Extrusion Grade

ISO 1043 (PC+ABS) 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	<b>11</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>260</b>	°C	-
Load	<b>5</b>	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.5</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	<b>1010</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	<b>0.23</b>	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	<b>2220</b>	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	<b>1E-7</b>	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	<b>110</b>	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>2700</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>60</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>4</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>&gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>100</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	<b>120</b>	°C	ISO 306
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Burning Behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>3.0</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Oxygen index	<b>32</b>	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 1MHz	<b>3</b>	-	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Comparative tracking index	<b>600</b>	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.6</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>0.2</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1190</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**XANTAR™ C CE 407**

(PC+ABS) FR(40)...

Mitsubishi Engineering-Plastics Corporation

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	80	°C	ISO 294

[C]: CAMPUS

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

**Characteristics****Processing**

Injection Molding, Profile Extrusion, Other Extrusion

**Special Characteristics**

Flame retardant

**Delivery form**

Pellets

**Regional Availability**

Europe

**Additives**

Release agent