

Product Texts

Flame Retardant, High Flow

ISO 1043 (PC+ABS) FR(40)

[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	40	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
^[C] Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
^[C] Density of melt	1000	kg/m ³	-
^[C] Thermal conductivity of melt	0.23	W/(m K)	-
^[C] Spec. heat capacity of melt	2220	J/(kg K)	-
^[C] Eff. thermal diffusivity	1E-7	m ² /s	-
^[C] Ejection temperature	85	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2850	MPa	ISO 527
^[C] Yield stress	60	MPa	ISO 527
^[C] Yield strain	4	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	104	°C	ISO 306
^[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] Oxygen index	32	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	3	-	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	325	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.6	%	Sim. to ISO 62
^[C] Humidity absorption	0.2	%	Sim. to ISO 62
^[C] Density	1170	kg/m ³	ISO 1183

[C]: CAMPUS

XANTAR™ C MC 3433

(PC+ABS) FR(40)

Mitsubishi Engineering-Plastics Corporation

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	70	°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

Special Characteristics

Flame retardant

Delivery form

Pellets

Regional Availability

Europe

Additives

Release agent

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