

Product Texts

Stress Crack Modified

ISO 1043 PC

[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	4	cm ³ /10min	ISO 1133
Temperature	280	°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	131	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100	MPa	ISO 527
^[C] Yield stress	52	MPa	ISO 527
^[C] Yield strain	6	%	ISO 527
^[C] Nominal strain at break	>50	%	ISO 527
^[C] Puncture energy, +23°C	16	J	ISO 6603-2
^[C] Puncture energy, -30°C	16	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	129	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	140	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	65	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Electric strength	18	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1180	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°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	-

XANTAR™ MX 1021

PC

Mitsubishi Engineering-Plastics Corporation

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

Additives

Release agent

Delivery form

Pellets

Regional Availability

Europe

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