

**XANTAR® C CM 406**

(PC+ABS)...

Mitsubishi Engineering-Plastics Corporation

**Product Texts**

General purpose, Vicat 120°C

ISO 1043 (PC+ABS)...

[XANTAR® Polycarbonate & Blends, your global partner for innovative added value](#)

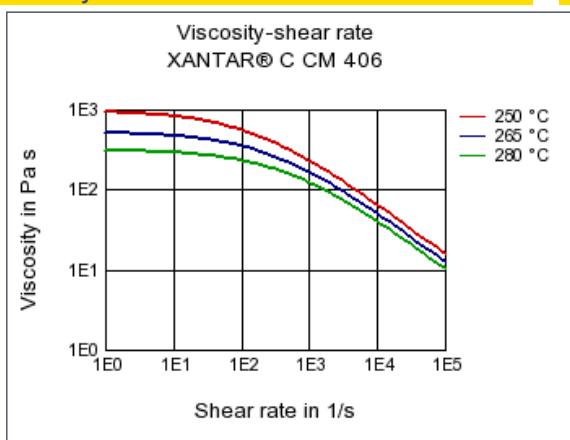
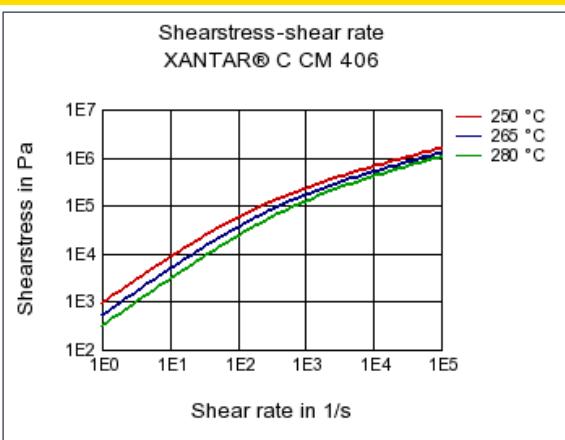
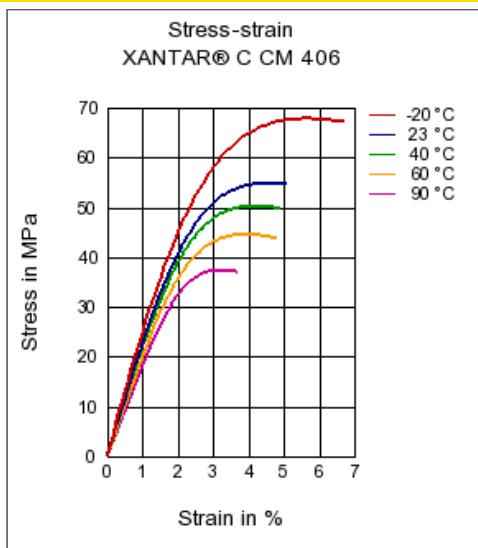
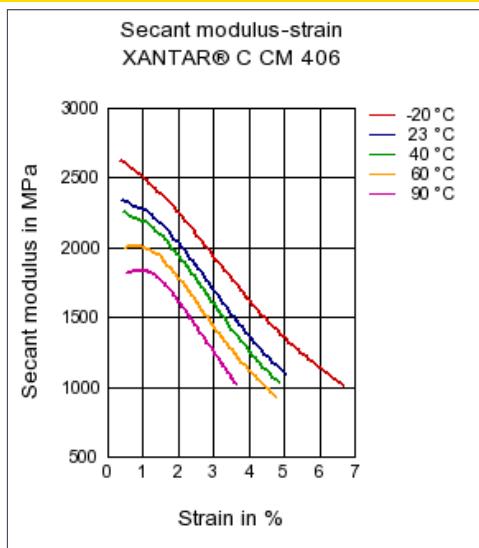
<b>Rheological properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	24	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	2200	MPa	ISO 527-1/-2
Yield stress	50	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	40	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	20	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	105	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	120	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	UL	-	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	IEC 60695-11-10
UL recognition	UL	-	-
Oxygen index	22	%	ISO 4589-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	2.9	-	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	35	kV/mm	IEC 60243-1
Comparative tracking index	275	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1130	kg/m <sup>3</sup>	ISO 1183

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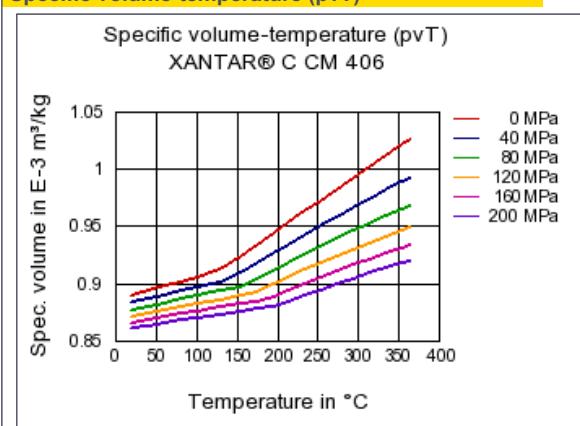
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Rheological calculation properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density of melt	1010	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.23	W/(m K)	-
Spec. heat capacity of melt	2280	J/(kg K)	-
Eff. thermal diffusivity	1E-7	m <sup>2</sup> /s	-
Ejection temperature	95	°C	-
<b>Test specimen production</b>			
<b>ISO Data</b>			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724

**Diagrams****Viscosity-shear rate****Shearstress-shear rate****Stress-strain****Secant modulus-strain**

## Specific volume-temperature (pvT)



## Characteristics

## Processing

Injection Molding

## Additives

Release agent

## Delivery form

Pellets

## Other text information

## Injection Molding

[Injection Molding Recommendations](#)