

# XANTAR<sup>®</sup> C CM 406

## Property Data

(PC+ABS)...  
General purpose, Vicat 120°C

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Melt volume-flow rate	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
<b>MECHANICAL PROPERTIES</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
Flexural modulus	2250	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
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
Izod notched impact strength (23°C)	65	kJ/m <sup>2</sup>	ISO 180/4A
Izod notched impact strength (-20°C)	55	kJ/m <sup>2</sup>	ISO 180/4A
Izod notched impact strength (-40°C)	35	kJ/m <sup>2</sup>	ISO 180/4A
<b>THERMAL PROPERTIES</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)	0.7	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
Burning Beh. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Beh. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	22	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	675	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	675	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	700	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	3	mm	IEC 60695-2-13

05.01.2010

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## ELECTRICAL PROPERTIES

Relative permittivity (1 MHz)	<b>2.9</b>	-	IEC 60250
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 60093
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 60093
Electric strength	<b>35</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>275</b>	-	IEC 60112
Comparative tracking index (PLC)	<b>2</b>	class	UL 746A

## OTHER PROPERTIES

Water absorption	<b>0.6</b>	%	Sim. to ISO 62
Density	<b>1130</b>	kg/m <sup>3</sup>	ISO 1183

## RHEOLOGICAL CALCULATION PROPERTIES

Thermal conductivity of melt	<b>0.23</b>	W/(m K)	-
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