

# XANTAR<sup>®</sup> C CM 206

## Property Data

(PC+ABS)...  
General purpose, Vicat 110°C

Properties	Typical Data	Unit	Test Method
<b>RHEOLOGICAL PROPERTIES</b>			
Melt volume-flow rate	<b>40</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>260</b>	°C	ISO 1133
Load	<b>5</b>	kg	ISO 1133
Molding shrinkage (parallel)	<b>0.6</b>	%	ISO 294-4
<b>MECHANICAL PROPERTIES</b>			
Tensile modulus	<b>2100</b>	MPa	ISO 527-1/-2
Yield stress	<b>45</b>	MPa	ISO 527-1/-2
Yield strain	<b>4</b>	%	ISO 527-1/-2
Nominal strain at break	<b>&gt;50</b>	%	ISO 527-1/-2
Flexural modulus	<b>2200</b>	MPa	ISO 178
Flexural strength	<b>75</b>	MPa	ISO 178
Charpy impact strength (+23°C)	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	<b>N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	<b>35</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	<b>15</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (23°C)	<b>65</b>	kJ/m <sup>2</sup>	ISO 180/4A
Izod notched impact strength (-20°C)	<b>30</b>	kJ/m <sup>2</sup>	ISO 180/4A
Izod notched impact strength (-40°C)	<b>15</b>	kJ/m <sup>2</sup>	ISO 180/4A
<b>THERMAL PROPERTIES</b>			
Temp. of deflection under load (1.80 MPa)	<b>95</b>	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	<b>110</b>	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	<b>0.7</b>	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	<b>0.7</b>	E-4/°C	ISO 11359-1/-2
Burning Beh. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	IEC 60695-11-10
Burning Beh. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>3</b>	mm	IEC 60695-11-10
Oxygen index	<b>21</b>	%	ISO 4589-1/-2
Glow Wire Flammability Index GWFI	<b>675</b>	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	<b>1.5</b>	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	<b>675</b>	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	<b>3</b>	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	<b>700</b>	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	<b>1.5</b>	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	<b>700</b>	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	<b>3</b>	mm	IEC 60695-2-13

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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>0</b>	class	UL 746A

## OTHER PROPERTIES

Water absorption	<b>0.7</b>	%	Sim. to ISO 62
Density	<b>1120</b>	kg/m <sup>3</sup>	ISO 1183

## RHEOLOGICAL CALCULATION PROPERTIES

Thermal conductivity of melt	<b>0.22</b>	W/(m K)	-
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