XANTAR® C CM 406

Property Data

(PC+ABS)...

General purpose, Vicat 120°C

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	**24**	cm³/10min	ISO 1133
Temperature	**260**	°C	ISO 1133
Load	**5**	kg	ISO 1133
Molding shrinkage (parallel)	**0.6**	%	ISO 294-4
MECHANICAL PROPERTIES			
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/m²	ISO 179/1eU
Charpy impact strength (-30°C)	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**40**	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**20**	kJ/m²	ISO 179/1eA
Izod notched impact strength (23°C)	**65**	kJ/m²	ISO 180/4A
Izod notched impact strength (-20°C)	**55**	kJ/m²	ISO 180/4A
Izod notched impact strength (-40°C)	**35**	kJ/m²	ISO 180/4A
THERMAL PROPERTIES			
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 Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	IEC 60695-11-10
Burning Behavior 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

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ELECTRICAL PROPERTIES			
Relative permittivity (1 MHz)	**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
Comparative tracking index (PLC)	**2**	class	UL 746A
OTHER PROPERTIES			
Water absorption	**0.6**	%	Sim. to ISO 62
Density	**1130**	kg/m³	ISO 1183
RHEOLOGICAL CALCULATION PROPERTIES			
Thermal conductivity of melt	**0.23**	W/(m K)	-

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