XANTAR® C CM 206 U

(PC+ABS)...
Vicat 110°C, UV Stabilized

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	40	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	2100	MPa	ISO 527-1/-2
Yield stress	45	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	2200	MPa	ISO 178
Flexural strength	75	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)	35	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	15	kJ/m²	ISO 179/1eA
Izod notched impact strength (23°C)	65	kJ/m²	ISO 180/4A
Izod notched impact strength (-20°C)	30	kJ/m²	ISO 180/4A
Izod notched impact strength (-40°C)	15	kJ/m²	ISO 180/4A
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	95	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	110	°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 Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	21	%	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)	3	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)	**0**	class	UL 746A

OTHER PROPERTIES

Water absorption	**0.7**	%	Sim. to ISO 62
Density	**1120**	kg/m³	ISO 1183

RHEOLOGICAL CALCULATION PROPERTIES

Thermal conductivity of melt	**0.22**	W/(m K)	-

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