

DSM Engineering Plastics - Property Data

Xantar® MX 1004

PC-unfilled

Impact modified, flame retardant, Chlorine/Bromine free

Properties	Typical Data	Unit	Test Method
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RHEOLOGICAL PROPERTIES

Melt volume-flow rate	21	cm ³ /10min	ISO 1133
Temperature	300	°C	ISO 1133
Load	1.2	kg	ISO 1133
Molding shrinkage (parallel)	0.6	%	ISO 294-4

MECHANICAL PROPERTIES

Tensile modulus	2200	MPa	ISO 527-1/-2
Yield stress	55	MPa	ISO 527-1/-2
Yield strain	6	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	2300	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Izod notched impact strength (23°C)	50	kJ/m ²	ISO 180/4A

THERMAL PROPERTIES

Temp. of deflection under load (1.80 MPa)	115	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	135	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	0.65	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
Oxygen index	33	%	ISO 4589-1/-2
Ball pressure temperature	125	°C	IEC 60695-10-2
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	960	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	3	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	800	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	775	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	3	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES

Relative permittivity (100Hz)	3.1	-	IEC 60250
Relative permittivity (1 MHz)	3	-	IEC 60250
Dissipation factor (100 Hz)	18	E-4	IEC 60250
Dissipation factor (1 MHz)	82	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093

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Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	325	-	IEC 60112
Comparative tracking index (PLC)	0	class	UL 746A

OTHER PROPERTIES

Water absorption	0.35	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

RHEOLOGICAL CALCULATION PROPERTIES

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