

DSM Engineering Plastics - Property Data

Xantar[®] MX 1000

PC-unfilled

Impact Modified, Flame Retardant, High Flow

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	30	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)	40	kJ/m ²	ISO 180/4A
Rockwell hardness, M scale	70	-	ISO 2039-2
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
Burning Behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2	mm	IEC 60695-11-20
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
Relative Temperature Index - electrical	110	°C	UL746B
RTI electrical (Thickness (1) tested)	1.5	mm	UL746B
Relative Temperature Index - electrical	110	°C	UL746B
RTI electrical (Thickness (2) tested)	3	mm	UL746B
Relative Temperature Index - with impact	85	°C	UL746B
RTI with impact (Thickness (1) tested)	1.5	mm	UL746B
Relative Temperature Index - with impact	105	°C	UL746B
RTI with impact (Thickness (2) tested)	3	mm	UL746B
Relative Temperature Index - without impact	105	°C	UL746B
RTI without impact (Thickness (1) tested)	1.5	mm	UL746B

01.06.2004

DSM Product

Unlimited. **DSM**

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.

DSM Engineering Plastics - Property Data

Xantar[®] MX 1000

PC-unfilled

Relative Temperature Index - without impact	110	°C	UL746B
RTI without impact (Thickness (2) tested)	3	mm	UL746B

ELECTRICAL PROPERTIES

Relative permittivity (100Hz)	2.9	-	IEC 60250
Relative permittivity (1 MHz)	2.8	-	IEC 60250
Dissipation factor (100 Hz)	6.6	E-4	IEC 60250
Dissipation factor (1 MHz)	92	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index (PLC)	2	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	0.26	W/(m K)	-
------------------------------	-------------	---------	---

01.06.2004

DSMProduct

Unlimited. DSM

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.