

DSM Engineering Plastics - Property Data

Xantar® C CF 107

(PC+ABS)-unfilled...

Flame retardant, high flow

Properties	Typical Data	Unit	Test Method
------------	--------------	------	-------------

RHEOLOGICAL PROPERTIES

Melt volume-flow rate	50	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (parallel)	0.5	%	ISO 294-4

MECHANICAL PROPERTIES

Tensile modulus	2850	MPa	ISO 527-1/-2
Yield stress	60	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N	kJ/m ²	ISO 179/1eU
Flexural modulus	2800	MPa	ISO 178
Flexural strength	110	MPa	ISO 178
Izod notched impact strength (23°C)	35	kJ/m ²	ISO 180/4A

THERMAL PROPERTIES

Temp. of deflection under load (1.80 MPa)	90	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	104	°C	ISO 306
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	32	%	ISO 4589-1/-2
Ball pressure temperature	90	°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	750	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	1.5	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	750	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	3	mm	IEC 60695-2-12

ELECTRICAL PROPERTIES

Relative permittivity (1 MHz)	3	-	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Comparative tracking index	575	-	IEC 60112

05.08.2004

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[®] C CF 107

(PC+ABS)-unfilled...

Comparative tracking index (PLC)	1	class	UL 746A
----------------------------------	---	-------	---------

OTHER PROPERTIES

Water absorption	0.6	%	Sim. to ISO 62
Density	1170	kg/m ³	ISO 1183

RHEOLOGICAL CALCULATION PROPERTIES

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

05.08.2004



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.