

DSM Engineering Plastics - Property Data

Xantar[®] SF 2220

PC-GF20

20% Glass Reinforced, Structural Foam

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	6	cm ³ /10min	ISO 1133
Temperature	300	°C	ISO 1133
Load	1.2	kg	ISO 1133
MECHANICAL PROPERTIES			
Tensile modulus	4100	MPa	ISO 527-1/-2
Stress at break	50	MPa	ISO 527-1/-2
Strain at break	3	%	ISO 527-1/-2
Flexural modulus	4300	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	135	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.12	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	4.8	mm	IEC 60695-11-10
Burning Behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	4.8	mm	IEC 60695-11-20
Oxygen index	35	%	ISO 4589-1/-2
Ball pressure temperature	125	°C	IEC 60695-10-2
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	3.3	-	IEC 60250
Relative permittivity (1 MHz)	3.3	-	IEC 60250
Dissipation factor (100 Hz)	8	E-4	IEC 60250
Dissipation factor (1 MHz)	90	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
OTHER PROPERTIES			
Water absorption	0.3	%	Sim. to ISO 62
Density	1350	kg/m ³	ISO 1183
Density (foamed)	1050	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
Limiting Viscosity Number	48	cm ³ /g	ISO 1628-4

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DSM Product

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