

DSM Engineering Plastics - Property Data

Xantar[®] MX 1020

PC-unfilled

Stress Crack Modified

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	6	cm ³ /10min	ISO 1133
Temperature	280	°C	ISO 1133
Load	1.2	kg	ISO 1133
Molding shrinkage (parallel)	0.6	%	ISO 294-4
MECHANICAL PROPERTIES			
Tensile modulus	2100	MPa	ISO 527-1/-2
Yield stress	52	MPa	ISO 527-1/-2
Yield strain	6	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Puncture energy (+23°C)	16	J	ISO 6603-2
Puncture energy (-30°C)	11	J	ISO 6603-2
Flexural modulus	2200	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Izod notched impact strength (-20°C)	60	kJ/m ²	ISO 180/4A
Izod notched impact strength (23°C)	70	kJ/m ²	ISO 180/4A
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	129	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	140	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	0.65	E-4/°C	ISO 11359-1/-2
Ball pressure temperature	125	°C	IEC 60695-10-2
ELECTRICAL PROPERTIES			
Electric strength	18	kV/mm	IEC 60243-1
Comparative tracking index (PLC)	2	class	UL 746A
OTHER PROPERTIES			
Water absorption	0.35	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183

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