

DSM Engineering Plastics - Property Data

Xantar® RX 1045

PC-unfilled

Fantasy colours, Very Low Viscosity, UV Stabilised

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	16	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	2300	MPa	ISO 527-1/-2
Yield stress	60	MPa	ISO 527-1/-2
Yield strain	6	%	ISO 527-1/-2
Nominal strain at break	30	%	ISO 527-1/-2
Flexural modulus	2400	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Izod notched impact strength (23°C)	15	kJ/m ²	ISO 180/4A
Rockwell hardness, M scale	70	-	ISO 2039-2
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	130	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	145	°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
OTHER PROPERTIES			
Water absorption	0.35	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
MATERIAL SPECIFIC PROPERTIES			
Limiting Viscosity Number	46	cm ³ /g	ISO 1628-4
RHEOLOGICAL CALCULATION PROPERTIES			
Thermal conductivity of melt	0.24	W/(m K)	-

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