

XANTAR[®] C RC 3710

Property Data

(PC+ABS)...
Vicat 120°C, Black color only

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	13.5	cm ³ /10min	ISO 1133
Temperature	260	°C	ISO 1133
Load	5	kg	ISO 1133
Molding shrinkage (parallel)	0.6	%	ISO 294-4
MECHANICAL PROPERTIES			
Tensile modulus	2200	MPa	ISO 527-1/-2
Yield stress	50	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Flexural modulus	2250	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	70	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	60	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	60	kJ/m ²	ISO 180/4A
Izod notched impact strength (-20°C)	40	kJ/m ²	ISO 180/4A
Puncture energy (+23°C)	35	J	ISO 6603-2
Puncture energy, part with rib (+23°C)	10	J	DSM (ISO 6603-2 based)
Puncture energy, part with rib (-20°C)	4	J	DSM (ISO 6603-2 based)
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	102	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	122	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	0.7	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
Relative permittivity (1GHz)	2.8	-	IEC 60250
Dissipation factor (1GHz)	88	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
OTHER PROPERTIES			
Water absorption	0.6	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

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