

XANTAR[®] MX 4500

Property Data (Provisional)

PC-MD FR(40)

Mineral filled, Flame Retardant (Bromine and Chlorine free), Extrusion Grade, European Railway EN45545 classified R1/HL2, Vicat 110°C

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt flow index MFI	4	g/10min	ISO 1133
MFI test temperature	260	°C	ISO 1133
MFI test load	5	kg	ISO 1133
MECHANICAL PROPERTIES			
Tensile modulus	4000	MPa	ISO 527-1/-2
Yield stress	54	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	15	%	ISO 527-1/-2
Flexural modulus	3900	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Charpy notched impact strength (+23°C)	30	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	25	kJ/m ²	ISO 180/4A
Izod notched impact strength (-30°C)	10	kJ/m ²	ISO 180/4A
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	100	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	110	°C	ISO 306
OTHER PROPERTIES			
Density	1300	kg/m ³	ISO 1183

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