

Product Texts

PBT, unreinforced

high impact modified, very good impact strength

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1700	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	9	%	ISO 527
Nominal strain at break	>50	%	ISO 527
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	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	12	kJ/m ²	ISO 179/1eA

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	224	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	53	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	108	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	190	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	190	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	-
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

Electrical properties

	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.3	-	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	26	kV/mm	IEC 60243-1
Comparative tracking index	500	-	IEC 60112

Other properties

	Value	Unit	Test Standard
Water absorption	0.43	%	Sim. to ISO 62
Humidity absorption	0.17	%	Sim. to ISO 62
Density	1260	kg/m ³	ISO 1183

Test specimen production

	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	240	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Delivery form

Pellets

Other text information**Injection Molding**

PREPROCESSING

Max. Water Content 0,04%

Pre-Drying: 120°C 2-4 Hours
PROCESSING
Melt Temperature 240-260°C
Mould Temperature 80°C