

Product Texts

PA 66, non-reinforced, injection moulding, halogen free flame retardant, improved flowability,

Processing/Physical Characteristics

	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	43 / *	cm ³ /10min	ISO 1133
Temperature	270 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3700 / 1500	MPa	ISO 527
Yield stress	90 / 50	MPa	ISO 527
Yield strain	4.1 / 19	%	ISO 527
Nominal strain at break	7.8 / >50	%	ISO 527
Charpy impact strength, +23°C	95 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90 / 90	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / 4	kJ/m ²	ISO 179/1eA

Thermal properties

	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	265 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	84 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	212 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-

Electrical properties

	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4 / 8	-	IEC 62631-2-1
Relative permittivity, 1MHz	4 / 4	-	IEC 62631-2-1
Dissipation factor, 100Hz	120 / 2000	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	190 / 550	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties

	dry / cond	Unit	Test Standard
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1170 / -	kg/m ³	ISO 1183

Material specific properties

	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant, Light stabilized or stable to light

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Additives

Plasticizer

Other text information

Injection Molding

PREPROCESSING

Max. Water content: 0.1 %

Drying temperature: 80 °C

Drying time:

Dry air dryer 2-20 h (will depend on the initial moisture content)

PROCESSING

Melt temperature: 260 - 270 °C

Mold temperature: 80 - 100 °C