

**Product Texts**

Injection Molding, 35% Glass Reinforced, Heat Stabilized

ISO 1043 PA66-GF35

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	11200 / 7500	MPa	ISO 527
<sup>[C]</sup> Stress at break	200 / 135	MPa	ISO 527
<sup>[C]</sup> Strain at break	3 / 5	%	ISO 527
<sup>[C]</sup> Tensile creep modulus, 1h	* / 7000	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	* / 5800	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	85 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	70 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	12 / 20	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	10 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Puncture - maximum force, +23°C	1030 / -	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	900 / -	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	3.9 / -	J	ISO 6603-2
<sup>[C]</sup> Puncture energy, -30°C	2.8 / -	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	263 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	250 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	100 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn. Thickness tested	HB / *	class	IEC 60695-11-10
<sup>[C]</sup> Oxygen index	1.5 / *	mm	-
<sup>[C]</sup> Oxygen index	23 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	5 / -	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	300 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	270 / -	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Electric strength	39 / -	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	1.8 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1410 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	290	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.12	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 120	°C	-

## Characteristics

### Processing

Injection Molding

### Special Characteristics

Flame retardant, Heat stabilized or stable to heat

### Delivery form

Pellets

### Regional Availability

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

## Other text information

### Injection molding

#### PREPROCESSING

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

#### PROCESSING

Melt temperature (Tmin - Tmax): 280 - 300 °C

Mold temperature: 80 - 120 °C