

**Product Texts**

Injection Molding, 35% Glass Reinforced, Heat Stabilized

ISO 1043 PA6-GF35

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	11000 / 6800	MPa	ISO 527
<sup>[C]</sup> Stress at break	190 / 120	MPa	ISO 527
<sup>[C]</sup> Strain at break	3 / 5	%	ISO 527
Flexural modulus, 23°C	10700 / 5900	MPa	ISO 178
Flexural strength	290 / 180	MPa	ISO 178
<sup>[C]</sup> Tensile creep modulus, 1h	* / 6000	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	* / 4900	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	85 / 95	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	75 / 75	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	15 / 22	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
Izod impact strength, +23°C	80 / 90	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	15 / 22	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	10 / 10	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	205 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
Vicat softening temperature, B	200 / *	°C	ISO 306
<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	80 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	4 / 15	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	4 / 5	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	70 / 2000	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	150 / 1200	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	* / 1E12	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	40 / 35	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	525 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	6.5 / *	%	Sim. to ISO 62

**Durethan® BKV35H3.0 000000**

PA6-GF35

Envalior

[C] Humidity absorption	<b>1.9 / *</b>	%	Sim. to ISO 62
[C] Density	<b>1410 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
[C] Viscosity number	<b>140 / *</b>	cm <sup>3</sup> /g	ISO 307, 1157, 1628

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
[C] Injection Molding, melt temperature	<b>280</b>	°C	ISO 294
Injection Molding, mold temperature	<b>80</b>	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 6</b>	h	-
Processing humidity	<b>≤0.12</b>	%	-
Melt temperature	<b>270 - 290</b>	°C	-
Mold temperature	<b>80 - 120</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

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): 270 - 290 °C

Mold temperature: 80 - 120 °C