

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	10300 / 6700	MPa	ISO 527
Stress at break	130 / 90	MPa	ISO 527
Strain at break	3 / 6	%	ISO 527
Flexural modulus, 23°C	10200 / 6600	MPa	ISO 178
Flexural strength	230 / 158	MPa	ISO 178
Charpy impact strength, +23°C	60 / 68	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	55 / 50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	10 / 13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	10 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	10 / 13	kJ/m <sup>2</sup>	ISO 180/1A
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	219 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-0 / *	class	IEC 60695-11-10
Burning behav. at thickness h Thickness tested	V-0 / *	class	IEC 60695-11-10
Oxygen index	32 / *	%	ISO 4589-1/-2
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	0.4	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
GWFI - thickness tested (2)	0.75	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (1)	0.4	mm	-
Glow Wire Ignition Temperature (GWIT)	775	°C	IEC 60695-2-13
GWIT - thickness tested (2)	0.75	mm	-
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 100Hz	4 / 8	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.6 / 3.9	-	IEC 62631-2-1
Dissipation factor, 100Hz	145 / 1130	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	155 / 655	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / 2.1E11	Ohm*m	IEC 62631-3-1
Electric strength	40 / 37	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
<b>Other properties</b>			
<b>dry / cond</b>			
Water absorption	4.6 / *	%	Sim. to ISO 62
Humidity absorption	1.5 / *	%	Sim. to ISO 62
Density	1420 / -	kg/m <sup>3</sup>	ISO 1183
<b>Processing Recommendation Injection Molding</b>			
<b>Value</b>			
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.07	%	-

**Durethan® ECOBKV30FN04**

PA6-GF30

Envalior

Melt temperature	<b>250 - 280</b>	°C	-
Mold temperature	<b>70 - 90</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Certifications**

Recycled Resin Content

**Special Characteristics**

Flame retardant, Halogen-free, Heat stabilized or stable to heat

**Regional Availability**

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