

Witcom PA6-EC

PA6

Wittenburg B.V.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	110	MPa	ISO 527
Strain at break	4	%	ISO 527
Flexural modulus, 23°C	5900	MPa	ISO 178
Flexural strength	155	MPa	ISO 178
Izod impact strength, +23°C	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	12.8	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	200	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	32	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Glow Wire Flammability Index (GWFI)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.6	mm	-
Glow Wire Ignition Temperature (GWIT)	750	°C	IEC 60695-2-13
GWIT - thickness tested (1)	1.6	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	7.5	%	Sim. to ISO 62
Humidity absorption	2.4	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 5	h	-
Processing humidity	≤0.1	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	40 - 80	°C	-
Back pressure	0 - 1	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Special Characteristics

Increased electrical conductivity