Witcom PA6-2005/43-HF

PA6-X — 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	**140**	MPa	ISO 527
Strain at break	**2.5**	%	ISO 527
Flexural modulus, 23°C	**15000**	MPa	ISO 178
Flexural strength	**205**	MPa	ISO 178
Charpy impact strength, +23°C	**40**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**6**	kJ/m²	ISO 179/1eA

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	**27**	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1.6**	mm	-
Glow Wire Ignition Temperature (GWIT)	**960**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1.6**	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	**1000000**	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water absorption	**4.2**	%	Sim. to ISO 62
Humidity absorption	**1.3**	%	Sim. to ISO 62
Density	**1330**	kg/m³	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	**240 - 260**	°C	-
Mold temperature	**50 - 90**	°C	-
Back pressure	**0 - 1**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
Europe

Special Characteristics
Increased electrical conductivity, Flame retardant, Halogen-free