

**WARPI A X 643HW**

PA66-GF30

MAIP SRL

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	45	g/10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	10300	MPa	ISO 527
Stress at break	190	MPa	ISO 527
Strain at break	4.5	%	ISO 527
Flexural modulus, 23°C	9400	MPa	ISO 178
Flexural strength	290	MPa	ISO 178
Charpy notched impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	75	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	14	kJ/m <sup>2</sup>	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	255	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	60	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	250	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	255	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	35	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	50	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Burning rate, FMVSS, Thickness 1 mm	20	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Density	1390	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 12	h	-
Processing humidity	≤0.08	%	-
Melt temperature	280 - 300	°C	-
Mold temperature	90 - 120	°C	-

**Characteristics****Processing**

Injection Molding

**Features**

Low Warpage

**Chemical Resistance**

Hydrolytically Stable

**Regional Availability**

Europe