DAFNEOHM® 6A KP06

PA6-X — Sirmax S.p.A.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**14000**	MPa	ISO 527
Stress at break	**140**	MPa	ISO 527
Strain at break	**5**	%	ISO 527
Flexural modulus, 23°C	**14000**	MPa	ISO 178
Flexural strength	**220**	MPa	ISO 178
Charpy impact strength, +23°C	**45**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**9**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**9**	kJ/m²	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
Temp. of deflection under load, 0.45 MPa	**215**	°C	ISO 75-1/-2
Vicat softening temperature, A	**215**	°C	ISO 306
Vicat softening temperature, B	**210**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
Glow Wire Flammability Index (GWFI)	**650**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1**	mm	-
Glow Wire Flammability Index (GWFI)	**650**	°C	IEC 60695-2-12
GWFI - thickness tested (2)	**2**	mm	-
Glow Wire Ignition Temperature (GWIT)	**675**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1**	mm	-
Glow Wire Ignition Temperature (GWIT)	**675**	°C	IEC 60695-2-13
GWIT - thickness tested (2)	**2**	mm	-

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**5000**	Ohm*m	IEC 62631-3-1
Surface resistivity	**5000**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Density	**1330**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 100**	°C	-
Pre-drying - Time	**3**	h	-
Melt temperature	**240 - 260**	°C	-
Mold temperature	**60 - 80**	°C	-

Characteristics

Processing
Injection Molding

Certifications
RoHS compliant

Special Characteristics
Increased electrical conductivity

Regional Availability
North America, Europe, Asia Pacific, South and Central America