

NANIL B 0680

PA6

MAIP SRL

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	140	g/10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3650	MPa	ISO 527
Stress at break	85	MPa	ISO 527
Strain at break	10	%	ISO 527
Flexural modulus, 23°C	3400	MPa	ISO 178
Flexural strength	120	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	4.5	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	52	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	130	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	185	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	75	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)
Glow Wire Flammability Index (GWFI)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	mm	-

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

Other properties	Value	Unit	Test Standard
Density	1150	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4 - 20	h	-
Processing humidity	≤0.1	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 100	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe