

KITAN B 27AV

PA6

MAIP SRL

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt flow index, MFI	140	g/10min	ISO 1133
Temperature	275	°C	-
Load	5	kg	-
Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3100 / 1050	MPa	ISO 527
Yield stress	80 / 40	MPa	ISO 527
Strain at break	20 / >50	%	ISO 527
Flexural modulus, 23°C	2900 / 1000	MPa	ISO 178
Flexural strength	100 / 50	MPa	ISO 178
Charpy notched impact strength, +23°C	5.5 / 50	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N / -	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6 / 50	kJ/m ²	ISO 180/1A
Rockwell hardness	R 108	-	ISO 2039-2

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	55 / *	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	170 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	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	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 62631-3-1

Other properties	dry / cond	Unit	Test Standard
Density	1140 / -	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	≤0.13	%	-
Melt temperature	250 - 270	°C	-
Mold temperature	60 - 80	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Features

Nucleated