

HITHOR D 446

PA12-CF20

MAIP SRL

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	9000	MPa	ISO 527
Stress at break	160	MPa	ISO 527
Strain at break	3	%	ISO 527
Flexural modulus, 23°C	8500	MPa	ISO 178
Flexural strength	240	MPa	ISO 178
Izod notched impact strength, +23°C	13	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	40	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	160	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	175	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Burning rate, FMVSS, Thickness 1 mm	100	mm/min	ISO 3795 (FMVSS 302)

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E10	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Density	1100	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 12	h	-
Processing humidity	≤0.08	%	-
Melt temperature	240 - 270	°C	-
Mold temperature	60 - 90	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe