BIMI X 1040

PARA-GF50 MAIP SRL

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**30**	g/10min	ISO 1133
Temperature	**275**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.4**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**19200**	MPa	ISO 527
Stress at break	**245**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Flexural modulus, 23°C	**17600**	MPa	ISO 178
Flexural strength	**340**	MPa	ISO 178
Charpy notched impact strength, +23°C	**8**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**70**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**9**	kJ/m²	ISO 180/1A
Rockwell hardness	**R 125**	-	ISO 2039-2

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**238**	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	**85**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**225**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**235**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**15**	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**45**	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)
Glow Wire Flammability Index (GWFI)	**750**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**3**	mm	-

Other properties	Value	Unit	Test Standard
Density	**1650**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 6**	h	-
Processing humidity	**≤0.08**	%	-
Melt temperature	**250 - 280**	°C	-
Mold temperature	**130 - 150**	°C	-

Characteristics

Processing
Injection Molding

Features
Laser Markable

Special Characteristics
Heat stabilized or stable to heat

Regional Availability
Europe