

ABISTIR® FAB1A17HB BK 0001 - ABS
Description

ABS, 17% glass fiber reinforced.

Physical properties	Value	Unit	Test Standard
Density	1160	kg/m ³	ISO 1183
Melt flow rate, MFR	7	g/10min	ISO 1133
MFR temperature	220	°C	ISO 1133
MFR load	10	kg	ISO 1133

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	5300	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	62	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	1.8	%	ISO 527-2/1A
Flexural modulus, 23°C	5300	MPa	ISO 178
Flexural strength, 23°C	100	MPa	ISO 178
Charpy notched impact strength, 23°C	6	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	6	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	102	°C	ISO 306
Flammability at thickness h	HB	class	UL 94
thickness tested (h)	1.50	mm	UL 94
UL recognition (h)	UL	-	UL 94

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	2 - 4	h	-
Drying temperature	80	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	190 - 210	°C	-
Zone2 temperature	210 - 230	°C	-
Zone3 temperature	220 - 240	°C	-
Nozzle temperature	230 - 250	°C	-
Mold temperature	50 - 70	°C	-

Other text information
Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.

Characteristics
Product Categories

Glass reinforced

Processing

Injection molding