

Factor® PP-LGF20 ES11 1-111 - PP
Description

Long glass fiber reinforced Polypropylene, Fiber content: 20%, cutting length: 11mm, color: black. Impact modified. Application: Injection molding

Physical properties	Value	Unit	Test Standard
Density	1030	kg/m ³	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	5000	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	95	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	2.7	%	ISO 527-2/1A
Flexural modulus, 23°C	5000	MPa	ISO 178
Flexural modulus, 80°C	3550	MPa	ISO 178
Flexural strength, 23°C	110	MPa	ISO 178
Flexural strength, 80°C	83	MPa	ISO 178
Charpy impact strength, 23°C	60	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	45	kJ/m ²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	145	°C	ISO 75-1, -2

Typical injection moulding processing conditions

Temperature	Value	Unit	Test Standard
Feeding zone temperature	200 - 220	°C	-
Zone1 temperature	220 - 230	°C	-
Zone2 temperature	230 - 250	°C	-
Zone3 temperature	250 - 260	°C	-
Zone4 temperature	260 - 265	°C	-
Nozzle temperature	265 - 270	°C	-
Mold temperature	35 - 65	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	25	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow	-	-

Characteristics

Product Categories	Delivery Form
Glass reinforced	Pellets

Processing

Injection molding