

**Factor® PP-LGF50 S11 1-101 - PP**
**Description**

Long glass fiber reinforced Polypropylene, fiber content 50%, cutting length 11mm, color :black, application: Injection molding

Physical properties	Value	Unit	Test Standard
Density	1320	kg/m <sup>3</sup>	ISO 1183

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	11700	MPa	ISO 527-2/1A
Tensile stress at break, 5mm/min	125	MPa	ISO 527-2/1A
Tensile strain at break, 5mm/min	1.9	%	ISO 527-2/1A
Flexural modulus, 23°C	11500	MPa	ISO 178
Flexural modulus, 80°C	7600	MPa	ISO 178
Flexural strength, 23°C	190	MPa	ISO 178
Flexural strength, 80°C	140	MPa	ISO 178
Charpy impact strength, 23°C	60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	48	kJ/m <sup>2</sup>	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	155	°C	ISO 75-1, -2

**Typical injection moulding processing conditions**

Temperature	Value	Unit	Test Standard
Feeding zone temperature	240 - 260	°C	-
Zone1 temperature	260 - 270	°C	-
Zone2 temperature	270 - 275	°C	-
Zone3 temperature	275 - 280	°C	-
Zone4 temperature	280 - 285	°C	-
Nozzle temperature	285 - 290	°C	-
Mold temperature	45 - 70	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	40	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow-medium	-	-

**Characteristics**

Product Categories	Delivery Form
Glass reinforced	Pellets

**Processing**

Injection molding