

UV Resistant Fiber Reinforced Recycled Polyethylene Pellets

SKU: GR610RGCF

Xtellar UV resistant Fiber Reinforced Recycled Polyethylene pellets are engineered for sustainability and durability. Made from recycled bottle caps and utilizing a unique combination of glass fiber and carbon fiber reinforced fibres, this UV resistant formulation delivers exceptional outdoor weatherability without compromising on sustainability. These pellets are used in 3D printed applications such as outdoor furniture, outdoor structures, or any industrial or consumer application where durability and UV resistance is desirable.

Recommended Print Settings

Parameter	Units	Range
Extruder Temperature Settings		
Nozzle	°C	205
Zone 3	°C	190-200
Zone 2	°C	175-185
Zone 1	°C	165-175
Dryer Temperature	°C	No Drying Needed
Bed Substrate	–	Polypropylene Sheet
Bed Temperature	°C	No heat / 20
Recoat Temperature	°C	>100 and <125

Printed Part Properties

Parameter	Units	Value
Density	g/cm ³	1.17
Ultimate Tensile Strength	MPa	22.5
Ultimate Tensile Elongation	%	0.6
Young's Modulus	GPa	6.6
Ultimate Compressive Strength	MPa	22.3
Ultimate Flexural Strength	MPa	29.7
Ultimate Flexural Elongation	%	1.3
Flexural Modulus	GPa	3.2

Notes

1. Recommended process conditions and printed part properties may be changed at any moment without previous communication from Xtellar.
2. For information on about safety, handling, individual protection, first aids and waste disposal, please see MSDS.
3. In case of questions regarding utilization or regulatory information, please contact our technical assistance area.
4. For information on about safety, handling, individual protection, first aids and waste disposal, please see SDS. In case of questions regarding utilization or regulatory information, please contact our technical assistance area.