

TECHNICAL DATA SHEET**PET-G CF****Description**

Recreus PET-G CF is a highly modified, carbon fibre-additivated amorphous PET copolymer that belongs to the family of PET products commonly known as "PETG" (PET Glycol Modified). It has been specially designed for 3D printing extrusions due to its excellent melt strength. Its main characteristic is its mechanical strength which is 5 times higher than its original formulation.

Physical Property	Value	Unit	Test method according to
Material density	1,1	g/cm3	ISO 1183

Mechanical Property	Value	Unit	Test method according to
Tensile modulus (Young)	9000	MPa	ISO 527
Tensile strength	105	MPa	DIN 53504-S2
Elongation at break	4%	%	DIN 53504-S2
Notched impact strength (Charpy)n at +23°C	6,5	kJ/m2	ISO 179

Thermal Property	Value	Unit	Test method according to
HDT (0,45MPa)	72	°C	ISO 75-2
HDT (01,82MPa)	69	°C	ISO 75-2
VST Vicat Softening Temperature	77	°C	Método Vicat A: 50 Nw, 50°C/h