100% RECYCLED

SUSTAINABLE

DISTINCTIVE APPEARANCE

EASY PRINTING

CREAMELT® rPET fifty

SUSTAINABLE FILAMENT FOR 3D PRINTING, 100% MADE FROM RECYCLED PET

CREAMELT® rPET fifty is a filament made from 100% recycled PET (polyethylene terephthalate). It consists of 50% industrial multilayer PET-G/PET and 50% ocean-bound PET waste from #tide.

rPET fifty gives you the ability to design and print durable parts with great chemical and heat resistance made from recycled materials and is a sustainable alternative to virgin material. Its distinctive appearance is great for interior design objects such as lampshades or vases.

Because rPET fifty is made of 100% recycled material, some minimal differences in printing and color properties are possible between individual spools. A cooling fan is not generally necessary, but is recommended to help against cloudiness and warping.

FILAMENT SIZE
Ø1.75 mm /Ø2.85 mm

AVAILABLE COLORS

SPECIFICATIONS

RECOMMENDED PRINT PARAMETERS

PRINTING TEMPERATURE	255...265 °C
PLATFROM TEMPERATURE	80...90 °C
PRINT SPEED	40...60 mm/s
NOZZLE SIZE	Ø0.4...0.8 mm
FILAMENT STORAGE	Drying Box
DRYING RECOMMENDATION	4h at 100 °C

PHYSICAL & THERMAL PROPERTIES

DENSITY	1150 kg/m^3
MELTING POINT	250...260 °C
GLASS TRANSITION POINT	75...80 °C
CRISTALLIZATION POINT	195...205 °C

MECHANICAL PROPERTIES

TENSILE MODULUS [1)]	1650 MPa
TENSILE STRENGTH [1)]	49 MPa
ELONGATION AT BREAK [1)]	3 %
IMPACT STRENGTH [2)]	115 kJ/m^2

1) AS MEASURED BY PRINTED TENSILE BARS DIN EN ISO 527 (1BA)
2) AS MEASURED BY PRINTED IMPACT SAMPLES DIN EN ISO 179/1 CHARPY UNNOTCHED

(NOTE: VALUES SHOWN ARE BASED ON 3D-PRINTED SAMPLES AND ARE THEREFORE SUBJECT TO VARIATIONS, AS IT IS ALSO A RECYCLED MATERIAL. THE RESULTING PROPERTIES DEPENDS ON GEOMETRY AND PROCESSING PARAMETERS.)