



CREAMELT® TPU-R

FELXIBLE FILAMENT,
100% MADE FROM RECYCLED SKI BOOTS

CREAMELT® TPU-R is an elastic filament for 3D printers, 100% made from recycled ski boots. The material is based on thermoplastic polyurethan which is used for the main cover of ski boots. To reuse the material, old ski boots are collected and diassembled by handicapped employee of ARGO Werkstätte Davos. After chemical analysing and color-sorting the collected plastic becomes shredded, remelted and extruded to new 3D filaments.

Because TPU-R is 100% made from recycled material, there can be some minimal differences in printing and color properties between single filament spools.

CREAMELT® TPU-R gives you the ability to design and print wonderful elastic objects made from recycled materials.

FILAMENT SIZE
Ø1.75 mm / Ø2.85 mm

AVAILABLE COLORS



SPECIFICATONS

RECOMMENDED PRINT PARAMETERS

PRINTING TEMPERATURE	210...230 °C
PLATFORM TEMPERATURE	70...75 °C
PRINT SPEED	20...70mm/s

MECHANICAL PROPERTIES ^{1) 2)}

TENSILE MODULUS	170 MPa
TENSILE STRENGTH	27 MPa
TENSILE STRAIN AT BREAK	> 320 %
IMPACT STRENGTH ³⁾	138 kJ/m²
SHORE HARDNESS	95 Sha

PHYSICAL & THERMAL PROPERTIES ²⁾

DENSITY	1200 kg/m³
MELTING POINT	150...200 °C
GLASS TRANSITION POINT	-50...-30 °C

1) AS MEASURED BY PRINTED TENSILE BARS AT 23°C

2) PROPERTIES CAN VARY IN VALUE DUE TO
100% RECYCLING RESOURCES

3) DIN EN ISO 179/1eU CHARPY UNNOTCHED

