



ONE PET

Description

ONE PET is a 100% recycled filament made from post-consumer PET plastic bottle waste. This is a stiff and tough material with excellent interlayer adhesion available in a wide range of colours to suit needs and requirements. Where our regular PETg has a better impact resistance ONE PET boasts superior technical properties such as tensile strength elongation strain at break and tensile modulus. oven-drying at 65° for 24 hours.

		Test Method	Typical Value
<i>Physical Properties</i>	Specific Gravity	ISO 1183	1.16 g/cc

		Test Method	Typical Value
<i>Mechanical Properties</i>	Impact Strength	ISO 179	3,9 kJ/m ²
	Yield Strength	ISO 527	57 Mpa
	Tensile Strength	ISO 527	57 Mpa
	Strain at Yield	ISO 527	6%
	Strain at Break	ISO 527	370%
	E-Modulus	Flexural modulus	ISO 178

		Test Method	Typical Value
<i>Thermal Properties</i>	Printing Temperature	Filamentive	260±10 °C
	Heat Deflection Temperature	ASTM D648	104°C

	Diameter	Tolerance	Roundness
<i>Filament Specifications</i>	1.75mm	± 0.05mm	>95%
	2.85mm	± 0.05mm	>95%