

# Nanodiamond Enhanced PLA Filament

**Formula:** PLA + Nanodiamond

**Diameter:** 2.85mm

**Length:** 5m

**Colour:** Natural

**UOM Code:** 052-938-74

**SKU:** 1000007528-group

**Product Code:** ME35-MT-000128

## Material Properties for Polymers

### Mechanical Properties

Element	Value
Elongation at break( % )	3.2
Tensile strength( MPa )	43.5

### Physical Properties

Element	Value
Water absorption - over 24 hours( % )	0.1
Density( gcm <sup>3</sup> )	1.35

### Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa( C )	107
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	0.38