

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 ³)	1.35

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	107
Thermal conductivity(W m ⁻¹ K ⁻¹)	0.38