

Monumental Technical Data sheet

DESCRIPTION

Monumental is a filament containing mineral microdust that **gives an Italian marble effect** and has been researched and developed **especially for architectural, design and archaeology sectors**.

A material of **great aesthetic and tactile qualities** for the production of static models having great scenic impact. Optimal workability post-printing.

Ideal material for use in architecture, civil engineering, design, art and archaeology sectors.

PRINTING MODES

- Extruder Temperature: 220°-235°
- Bed Printing Temperature: 70°
- Suggested printing speed: 60-70 mm/sec

APPLICATIONS

Monumental is a thermoplastic filament especially suitable 3D Printing Prototyping Technologies FFF (Fused Filament Fabrication).

Following are tests carried out to proof the features and properties of the material:

Property Test Condition	Standard	Unit	Values
Mechanical Properties			
Charpy Impact at 23° C	ISO 179	kJ/m ²	8
Charpy Impact at -30° C	ISO 179	kJ/m ²	3
Tensile modulus	ISO 527	GPa	2,5
Thermal Properties			
Vicat softening temperature	ISO 96	°C	102
Other Properties			
Water Absorption	ISO 62	%	0,2
Melt flow rate - MFR	ISO 1133	g/10 min	4

SUPPLY FORM

Monumental is supplied as Filaments.

External filament diameter is 1,73 mm (Diameter tolerances + 0.02/-0,03 mm; ovality tolerances: max 0,05 mm).

It has to be kept in its original packaging. Avoid direct exposure to sunlight.

Olivetti S.p.A.

Società con unico azionista Gruppo Telecom Italia – Direzione e coordinamento di Telecom Italia S.p.A.

Sede Legale: Via Jervis, 77 – 10015 Ivrea (TO)

Cod. Fisc. / P. IVA e iscriz. Al Reg. delle Imp. Di Torino: 02298700010 – REA si Torino 547040 – Cap. Soc. 10.000.000 i.v.