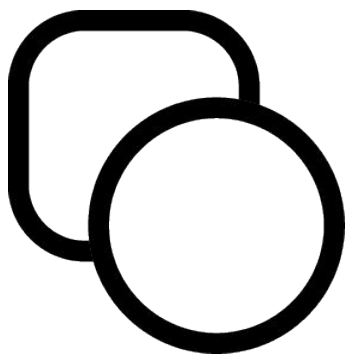


ACCESS is a fine powder based on Polypropylene resin especially formulated to function on rapid prototyping systems by laser sintering (SLS, LS) or radiation (IRS, MJF). It enables to obtain productions of models and functional parts in "polypropylene" with long cycle of life and excellent chemical resistance.

ACCESS PP30



Typical features :

Excellent accessible material
30% elongation break
 Similar refresh rate to PA12
Alternative to Polyamide

Applications examples :

- Ductility
- Living hinges,
- Low friction elements
- Chemical resistant needs
- Low density parts (lighter)

Refresh rate :

50 %

The process ability of the powder on your systems is optimized ; thus **all the powder** of a building can be re-used after sifting. The refreshing factor for regeneration is lower than the usual rates giving a real economic advantage.

Key Points :

Price per cm³

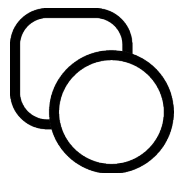
General Properties :

Chemical Nature of the Preparation :	POLYPROPYLENE, Presence of additives	
Physical State (20°C) and Color :	Solid (powder) Natural Grade : White Translucid	
Average Particle Size :	Diffraction laser :	60 < _ < 70 μm
Grain Size :	D10	NC
Grain Size :	D50	NC
Grain Size :	D90	NC
Powder packed Density 23 °C :	ISO 60	0,33 +/- 0,03 g/cm ³
Part Density :	ISO 61	0,89 +/- 0,05 g/cm ³
23°C Moisture absorption 24 hrs :	ASTM D570	NC

Mechanical Properties :

Young Modulus*	ISO 527	1100 - 1300 MPa
Flexural Modulus*	ISO 178	1050 - 1250 MPa
Tensile strength (Average XY)*	ISO 527	28 +/- 1 MPa
Tensile strength (Average Z)*	ISO 527	25 +/- 1 MPa
Elongation at break (Average XY)*	ISO 527	25 +/- 5 %
Elongation at break (Average Z)*	ISO 527	15 +/- 5 %
Charpy – Impact strength*	ISO 179 (20°C)	26 +/- 5 dry/Cond.24 hrs KJ/m ²
*statistics after several cycles >10 refresh		
50 cond. 24 hrs		

The mechanical properties can vary according to the positioning of the tensile bars, operating conditions and exposure parameters of the systems used. These data rest on the current state of our knowledge. They do not give the exact characteristics of material and does not represent a guarantee.



Thermal Properties :

T ^f Melting Point : T ^c Crystallization : T° Process : According to machine Reading :	DSC DSC Glazing Method	132 < _ < 140 °C 95 < _ < 105 °C - 6 +/- 2 °C (ex : 130 °C +/-2)
Flammability – Fire Classification UL-94 following ASTM D618(ISO 921) with a barrel 125 mm x 13 mm, e=13 mm	UL94 vertical & Horizontal test	NC Out Classification

Electrical Properties :

According to the value reach in CEI 93 the material is considered as : NC

Volume resistivity Horizontal surface Voluminal resistivity Vertical surface Voluminal resistivity	CEI 93 CEI 93 CEI 93	NC NC NC
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Surface Finish :

Natural Coloration : Shore D Hardness : Surface Ra/ Upper Facing processed & blasting : Surface Ra/ Upper Facing after Finishing :	Visual ISO 868 (20°C) ISO 4287 ISO 4287	WHITE Translucid 72 Shore D NC NC
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Chemical Properties :

Matrix in Polypropylene with a good chemical resistance to alkaline, hydrocarbons, oils, gasoline's, gas oil and solvents.
Attack by the acids. Sealing of wall starting from 2 mm thickness.

SOLUBILITY : WATER : Solvents : Odor : pH:	Insoluble in Water Soluble in Mineral acids, Phenol's Insoluble in most organic solvents Insoluble in : Chlorinated solvents ,Alkaline conditions Odorless Not soluble
Melting Point / Range : Decomposition Temperature : Explosive Properties : Explosive Limits :	120 ° C < T < 170 °C Polymer : > 380 °C For solids not relevant for Classification and labelling. For solids not relevant for Classification and labelling.

Data Sheet_ACCESS PP30_ May 2020.