BREAKAWAY

Technical Data Sheet

Dynamism Breakaway is a general purpose breakaway support material for dual-extrusion 3D printers. Provides easily removable support structures with great adhesion to PLA print material, while it can also be used in combination with PC, TPU, and PVB print materials (geometry dependent).

PHYSICAL PROPERTIES

PROPERTY	TESTING METHOD	TYPICAL VALUE
Density	ISO1183, GB/T1033	1.22 g/cm^3 at 23°C
Melt index	220°C, 2.16kg	3-6 g/10min
Light transmission	N/A	N/A
Flame retardancy	N/A	N/A

MATERIAL COMPATIBILITY

MATERIAL	ADHESION WITH DYNAMISM BREAKAWAY
PLA based material from Dynamism's portfolio	++
PETG based material from Dynamism's portfolio	-
ABS based material from Dynamism's portfolio	-
PC based material from Dynamism's portfolio	+
PVB based material from Dynamism's portfolio	+
TPU based material from Dynamism's portfolio	+
Nylon based material from Dynamism's portfolio	--

++ support the model very well
+ generally support the model depending on its geometry
- generally doesn't support the model depending on its geometry
- - do not support the model

RECOMMENDED PRINTING CONDITIONS

PARAMETER	
Nozzle temperature	220 – 230 (˚C)
Build surface material	BuildTak®, Glass, Blue Tape
Build surface treatment	Glue
Build plate temperature	25 - 60 (˚C)
Cooling fan	ON
Printing speed	20-40 (mm/s)
Raft separation distance	0 (mm)
Retraction distance	1 (mm)
Retraction speed	20 (mm/s)
Environmental temperature	Room temperature

Based on 0.4 mm nozzle and Simplify 3D v.4.0. Printing conditions may vary with different nozzle diameters

DISCLAMIER

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End- use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc.

Product specifications are subject to change without notice.
Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of Dynamism materials for the intended application. Dynamism makes no warranty of any kind, unless announced separately, to the fitness for any use or application. Dynamism shall not be made liable for any damage, injury or loss induced from the use of Dynamism materials in any application.