

Technical Datasheet – EcoBold Acrylic

Ecobold Acrylic is a material that is produced with resins from 50% virgin acrylic and 50% recycled acrylic in its composition, with the international quality standard and quality guaranteed..

- Glossy finish in laser cutting
- Produced with recycled acrylic
- Recommended for indoor use
- International quality standard



General Properties	Testing Methods	Unit	Result
Space Gravity	ASTM D-792:2000	-	1.19-1.2
Relative Density	ISO 1183	-	1.2
24-Hour Water	ASTM D-570 DSAS	%	0.3
Absorption Rate	ASTM D-1525 2006	°C	≥105°C

Optical Property	Testing Methods	Unit	Result
Heat Deflection	ASTM D-658	-	≥78°C
Flammability	ASTM D-635:2003	-	
Linear Expansion	ASTM D-831:2006	%	6x10-5

Mechanical Property	Testing Methods	Unit	Result
Bending Resistance	ASTM D-638:2003	MPA	1050
Elongation at Break	ASTM D-638:2003	%	
Bending Module	ASTM D-790:2003	MPA	
IZOD impact	ASTMD-256:2000	J/M	≥16kg/m3
Impact force	ASTM D-790:2003	MPA	90-130MPa
Rockwell Hardness	ASTM D-785:2003	M SCAKE	90

Thermal Properties	Testing Methods	Unit	Result
Total LIGHT	ASTM D-658	%	92%
Fog	ASTM D-635:2003	MM/MM	
Bending Resistance	ASTM D-831:2006	MM/MM/°C	

FAQ

- **Can glue be made?** Yes, Eco Bold acrylic accepts the same glues and bonding processes that are made for Virgin Acrylic.
- **Does it generate smoke when you cut?** No, as it is produced with only acrylic parts and plates it has a purity in the material that does not generate smoke or soot.
- **Does recycled acrylic come yellowish?** No, it is crystalline, but as it has no UV protection over time it generates yellowing if exposed to the sun.
- **How long does it take for recycled acrylic to yellow?** In external use in 2 days it already begins to present yellowing, but in internal use lasts for years without yellowing depending on the environment and light.
- **What color is the film?** It goes with transparent liner.
- **Does recycled acrylic have fingerprints or screen printing?** Yes, it has good grip in the same way as the virgin getting a great finish.
- **Does recycled acrylic smell?** Eco Bold acrylic has no smell.
- **Can recycled acrylic be molded?** Yes, it can be molded and as it is more malleable it has a slightly faster heating than the virgin.
- **Is recycled acrylic guaranteed?** It does not have, because the warranty on acrylic is on yellowing and in this case it does not have UV protection.
- **How many times is it possible to recycle an acrylic?** Infinite times, it is the only plastic that can be recycled endless times even after being recycled.
- **What is the difference between recycled acrylic and the virgin?** The only difference is that the virgin has UV protection and therefore has a 10-year warranty against yellowing and the recycled does not have UV protection which ends up generating yellowing over time or external use.

Learn more about Ecobold acrylics: <https://youtu.be/hO9TckSSai4>