

Material Datasheet

ABS

ABS is a very strong and versatile material with great thermal resistance. It's suitable for both indoor and outdoor use. If you need to use your print outside, or just need your print to be stronger, give ABS a shot. After all, it's what LEGO is made of.

Common Applications

- Cases or Project Enclosures
- Toys or Action Figures
- Automotive hardware

Physical Properties	Standard	Unit	Typical Value
Density	ASTM D792	g/cm ³	1.06
Melt Flow Index	ASTM D1238	g/10 min	15(220°C/10Kg)

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength	ASTM D882	MPa	40
Elongation at Break	ASTM D882	%	30
Flexural Strength	ASTM D790	MPa	68
Flexural Modulus	ASTM D790	MPa	2443
Izod Impact Strength	ASTM D256	KJ/m ²	42

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (T_g)	ASTM D3418	°C	100-105