

Material Datasheet

Flex

Flex is a very strong and flexible material. There are many use cases when hard plastic is not the best option. Whether you need a phone cover, an action camera case or wheels for your RC car, flexible is the way to go.

Flex has a very good abrasion resistance, remains flexible in cold environments, and is resistant to many solvents. It doesn't shrink much when cooling down, so you can be fairly accurate with your measurements and models requiring a perfect fit.

Common Applications

- Vibration dampening
- Grip Sleeves
- Phone cases
- Seals, Plugs,
- Hinges
- Sleeves & Snap-fit parts

Physical Properties	Standard	Unit	Typical Value
Density	ASTM D792	g/cm ³	1.22
Melt Flow Index	ASTM D1238	g/10 min	-

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength	ASTM D882	MPa	39
Elongation at Break	ASTM D882	%	580
Flexural Strength	ASTM D790	MPa	-
Flexural Modulus	ASTM D790	MPa	-
Izod Impact Strength	ASTM D256	KJ/m ²	19.1

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