

Formlabs most impact resistant material, Durable Resin is also highly wear resistant, capable of extreme deformation before breaking, and has low friction compared to Standard and Tough Resin. Use Durable to prototype models that will eventually be made from polypropylene (PP) or high density polyethylene (HDPE). It is best used when these features are required in a room-temperature application.

Polypropylene is very commonly used in situations where high elongation, deformation, and/or impact resistance are required. Applications of polypropylene include items like toothbrushes, car bumpers, packaging, razors, and more.



Durable is ideal for engineering prototypes and has been developed to withstand high strain. Consider printing in Durable Resin for applications that require impact resistance for rugged prototyping and for models that feel or look like real polypropylene. Like Flexible Resin, Durable Resin also works for objects that require some flexibility. Unlike Flexible Resin, Durable is also useful when you need to maintain good rigidity.

## IDEAL FOR:

- Parts requiring high impact strength
- Prototyping parts that will be made out of polypropylene or HDPE
- Parts that require a low-friction surface, like ball joints
- Parts that are both rigid and flexible
- Snap-fit parts and flexures

## NOT SUITABLE FOR:

- Parts with very fine details
- Parts that will be used in elevated temperature environments
- Constant loading