



Tough 1500 RESIN

Grey

Tough 1500 Resin closely simulates Polypropylene, and is very resilient and impact resistant. Great for snap-fit connectors and parts that need to spring back quickly under cyclic loading.

Properties Summary

| | |
|-------------------|---------------------------------|
| Hardness | <div style="width: 85%;"></div> |
| Surface Finish | <div style="width: 95%;"></div> |
| Cost | <div style="width: 70%;"></div> |
| Impact Resistance | <div style="width: 98%;"></div> |

DESIGN GUIDELINES

Tough 1500 Resin is quite versatile but as with all materials, some simple design tweaks will help you to get the best results possible.

| | |
|---------------------------|--------------------------|
| Maximum Build Volume | 140 mm x 140 mm x 140 mm |
| Min Wall Thickness | 0.5 mm |
| Min Hole Diameter | 0.5 mm |
| Minimum Part Clearance | 0.5 mm |
| Minimum Debossed Detail | 0.4 mm |
| Minimum Embossed Detail | 0.1 mm |
| Maximum Unsupported Angle | N/A |

MATERIAL DATA

| | |
|---------------------------|---------|
| Ultimate Tensile Strength | 33 MPa |
| Tensile Modulus | 1.5 GPa |
| Elongation at Failure | 51% |
| Flexural Modulus | 1.4 GPa |
| Maximum Safe Temperature | 50°C |

SUBSCRIPTIONS/CREDITS INFORMATION

This material falls under the Premium SLA materials category for our subscription/credit pack customers.

25ml = 1 credit

As this is an SLA material which will have supports attached while building, we recommend an enhanced finish to smooth over any marks/blemishes.

[Enhanced finish \(1 credit per 50 ml\)](#)

Still have questions? Contact us at enquiries@printpool.co.uk or give us a call on 01865 546430. We're always happy to help!