

## Assorted Material Selection Guide

Material	Thickness Range (mm)	Stocked by OSCS	General cut process	Comments	Common uses
Acrylic (Perspex)	2, 2.5, 3, 4.5, 6, 8, 10, 12, 15, 18mm	✓*	Laser	Available in clear, black, white and a range of colours. UV stable and resistant to many chemicals. Can be thermos formed. We don't cut white acrylic as it gets grey staining on the cut edge.	Signage, display cabinets, POS stands and displays.
PetG	0.75, 1, 1.5, 2, 3, 4, 6mm	✓*	Laser	Tough durable plastic with good impact and chemical resistance, great formability Tough durable plastic with good impact and chemical resistance, great formability approved for food contact	Machine components that are in contact with food. Food storage vessels and containers.
Polypropylene	Up to 50mm		Water	Tough durable plastic with good impact resistant, also acid and moisture resistant.	Acid and chemical tanks, machine components.
Polyethylene	Up to 50mm		Water	Highly ductile, low friction low strength, approved for food contact, light weight.	Machine components that are in contact with food or when low weight r low friction is required.
Polycarbonate	Up to 50mm		Water	Tough stiff transparent plastic with great impact resistance and UV resistance.	Shatter proof windows, machine screens and windows.
PVC	Up to 50mm		Water	Economical versatile strong plastic that is easily bonded with solvent glue or thermowelding	Electrical enclosures, machine components
UHMWPE	3, 5, 6, 8, 10, 12, 15, 20mm	✓*	Water	Tough durable plastic that is resistant to moisture and chemicals, machines nicely.	Wear strips, gears, machine parts
Copper	0.5, .55, .7, .9, 1.2, 1.5, 1.6, 2,3,0mm	✓*	Laser	Reddish orange soft metal, great formability due to its high ductility, excellent electrical and heat conductor resistant to corrosion	Architectural flashings and features, Bus Bars Signage, Decorative features.
Brass Mill Finish	0.9, 1.2, 1.6, 1.8, 2, 2.5, 3, 5,10mm	✓*	Laser	Corrosion resistant, low friction excellent machinability	Machine components, Bearings, lock components.
Brass Bright Finish	0.5, 0.7, 0.9, 1.2, 1.6	✓*	Laser	Attractive gold like appearance, corrosion resistant.	lock components, Signage, Decorative features, items that need to be highly polished
MDF	3, 4.75, 6, 9, 12, 16, 18, 25mm	✓*	Laser	Economical high density board, laser cutting produces a black cut edge.	Furniture, Cabinets, Speaker enclosures inside use only.
Plywood	Up to 30mm (Subject to grade)		Laser	Plywood grade is important especially as thickness goes up, we are happy to provide a cut sample from your sheet.	Furniture, POS display stands, construction.
Pine	Up to 30mm		Water	General purpose economical timber	Furniture, Signage, Construction.
Particle Board	Up to 30mm		Water	Durable economical construction board	Construction
Titanium	Up to 30mm		Water	Very high strength to weight ration and excellent corrosion resistance.	Aerospace components, Race Car and High end Marine components
Carbon Fibre	Up to 30mm		Water	High strength light weight with high chemical and temperature resistance.	Boat building Aerospace components, Race Car components.
Wood	Up to 50mm		Water	General purpose construction material.	Construction, Furniture Cabinets.

\* Check availability and price

\*\* We can also a range of exotic materials not listed above. Please [contact](#) the team to see if we can solve your problem.

**Disclaimer; the information above is for general information only. For specific properties and uses contact material suppliers directly.**