

# How Thick Can Your Laser Cut?

IPS = INCHES PER SECOND    MPS = METERS PER SECOND    MMPS = MILLIMETERS PER SECOND

## Thick Maple Hardwood 0.625" (15.875mm)

25 watts	50 watts	100 watts	120 watts
TOO THICK	0.14 IPS	0.28 IPS	0.34 IPS
TOO THICK	3.56 MMPS	7.11 MMPS	8.64 MMPS

## Thin Maple Hardwood 0.025" (0.635mm)

25 watts	50 watts	100 watts	120 watts
4.69 IPS	9.375 IPS	18.75 IPS	22.5 IPS
0.12 MPS	0.24 MPS	0.476 MPS	0.572 MPS

## Thick Balsa (Softwood) 0.50" (12.7mm)

25 watts	50 watts	100 watts	120 watts
0.375 IPS	0.75 IPS	1.5 IPS	1.8 IPS
9.53 MPS	19.05 MMPS	38.1 MMPS	45.7 MMPS

## Thin Balsa (Softwood) 0.025" (0.635mm)

25 watts	50 watts	100 watts	120 watts
7.29 IPS	14.6 IPS	29.2 IPS	35 IPS
0.185 MPS	0.37 MPS	0.74 MPS	0.89 MPS

## Thick Acrylic 0.455" (11.557mm)

25 watts	50 watts	100 watts	120 watts
TOO THICK	0.2 IPS	0.4 IPS	0.48 IPS
TOO THICK	3.56 MMPS	7.11 MMPS	8.64 MMPS

## Thin Acrylic 0.125" (3.175mm)

25 watts	50 watts	100 watts	120 watts
0.5 IPS	1 IPS	2 IPS	2.4 IPS
12.7 MMPS	25.4 MMPS	50.8 MMPS	70 MMPS

## Paper 0.009" (0.229mm)

25 watts	50 watts	100 watts	120 watts
12.5 IPS	25 IPS	50 IPS	60 IPS
0.318 MPS	0.635 MPS	1.27 MPS	1.524 MPS

## Mylar Film 0.005" (0.127mm)

25 watts	50 watts	100 watts	120 watts
22.06 IPS	44.125 IPS	88.25 IPS	105.9 IPS
0.56 MPS	1.12 MPS	2.24 MPS	2.69 MPS