From **Penetration Depths** at <u>https://www.pueschner.com/en/microwave-technology/penetration-depths</u> **Table 1.** Penetration depths of microwave energy of various materials at 2450MHz

Penetration Depths

Table 1 shows the penetration depth values of various materials. It should be noted that the penetration depth of the electric field strength is sometimes reported in the literature, with a value which is twice as high.

Material	Temperature in °C	Penetration depth in cm
water	45	1,4
water	95	5,7
ice	-12	1100
bread	25	2 5
potato, raw	25	0,9
mashed potato	25	0,8
peas, carrots	25	1
meat	25	0,9 1,2
paper, cardboard	25	20 60
wood	25	8 350
caotchouc	25	15 350
hollow glass	25	35
porcelain	25	56
polyvinylchloride20	20	210
epoxy resin (Araldite CN- 501)	25	4100
teflon	25	9200
quartz glass	25	16000