

ZOFLEX® CD45.1 Conductive Rubber Sheets

ZOFLEX® CD45.1 is highly conductive with a Shore A hardness of 45. Compared to our pressure-activated conductive rubber, it is highly conductive without applying any pressure. It can be used as flexible electrical contacts, RFI/EMI shielding and antistatic materials.

Characteristic	Data	Conditions
Operating Voltage Range	0-15V	DC, AC
Volume Resistivity	0.1 ohm·cm	25°C, 1cm cube, opposite faces
Resistance	1 ohm	25°C, 1cm square, 1mm thick, opposite sides 1cm apart
Maximum current	0.5A @ 15V	1cm ² , 1mm thick
Shore A Hardness	45	25°C
Density	1.70 g/cm ³	25°C
% Elongation	50%	25°C

Application notes:

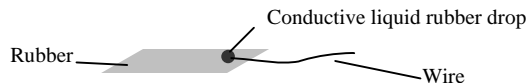
1. Attaching CD45.1 to plastics, rubber, wood or metal:

RTV silicone adhesive/sealant can be used to perform the task.

1. Make sure the surfaces are clean.
2. Apply a thin bead of silicone
3. Cure at 25°C for ~1-2 hrs
4. Cure at 45°C for ~4-5 hrs

2. Wire Attachment:

Method 1: Use our Zoflex® FL conductive liquid rubber (sold separately). Please make sure to apply enough liquid conductive rubber to achieve thickness (after cure) of at least 1mm.



Method 2: Set a brass or copper eyelet in a conductive rubber sheet (see picture below), and then solder wires to the eyelet.

