

June 24, 2003

Farnell Order Code 233020.

PS-40-MPB-IC Specifications Sheet

The PS-40-MPB-IC consists of our standard PS-40-C conductive hinged box (material specifications can be found attached as file 'BoxInfo.doc') and three foam inserts consisting of a 6mm low density foam in the lid and two 6mm high density foams in the base. The upper piece of foam also has a small half-moon recess approximately 1cm in radius to allow for easy extraction of embedded components.

The internal and external dimensions of the box are given below.

Box/Section	Measurement	Width (mm)	Height (mm)	Depth (mm)
Box	External	142	101	38
Base	Internal	138	96	21
Lid	Internal	139	98	14

Taking into account the standard foam sizes, free internal space would be:

Box/Section	Measurement	Width (mm)	Height (mm)	Depth (mm)
Base	Internal	138	96	9
Lid	Internal	139	98	8

Please note that the figures in the last table may vary by 1mm due to foam expansion (particularly in the lid where low density foam is present).

The base material for all EUROTRON moulded Box Products is a conductive thermoplastic compound on reinforced polypropylene base, conductivity is achieved by using special conductive carbon black. In addition to low electrical resistivity the thermoplastic has low shrinkage and very high modulus of elasticity. Typical applications are injection moulded IC-trays, circuit board production and transport, boxes for electronic components and other static sensitive devices.

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Tensile strength	ASTM D-1238	MPa	40
Yield strength	ASTM D-638	MPa	-
Elongation at break	ASTM D-638	%	5
Modulus of Elasticity	ASTM D-790	MPa	4600
Impact strength Charpy 23°C	ASTM D-256	kJ/m ²	9
-20°C	ASTM D-256	kJ/m ²	7
Impact strength Charpy notched 23°C	ASTM D-256	kJ/m ²	2
-20°C	ASTM D-256	kJ/m ²	2
Vicat softening point 1,0 kg/5,0 kg	ASTM D-1525 Rate A	°C	159/135
HDT	ASTM D-648- 82	0,45 MPa °C 1,8 MPa °C	145 110
Volume resistivity	ASTM D-257	Ω cm	<10 ³
Surface resistivity	ASTM D-257	Ω	<10 ⁴
Shrinkage	ASTM D-955- 73	%	0,7-1,0
Hardness Shore A/D	ASTM D-2240		99/81

The information in this data sheet represents typical values obtained by the manufacturers and should not be regarded as specification.