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November, 1991

175-811/2/3

PRE-ELEC CP 1315

PRE-ELEC CP 1315 is a conductive thermoplastic compound on polyolefine copolymer base. Conductivity is achieve by using special conductive carbon black. In addition to low electrical resistivity PRE-ELEC CP 1315 has excellent mechanical properties making it suitable for applications where standard EVA resin normally is used. Typical applications are flexible extruded products like sheets for floor matting.

Appearance		granelity
Colour		black
Moisture content	· !	max. 0.15% when produced
Packaging		1000 kg octabin
Storing		can be stored one year in normal storing conditions

PHYSICAL PROPERTIES	test method	ili.	value
Density		g/om ^t	1,01
Melt flow index (230°C/5,0 kg) (230°C/21,6 kg)	ASIM D-1238	g/10 min g/10 min	5 25
Tensile strength	481M 15-638	Section 1	ephologies of the control of the con
Yield strength	ASTM D-638	MPa	
Elongation at break	ASTM D 638	्यू पुर	150
Elongation at yield	im Ords		1
Modulus of Elasticity	ASTM D 790	MPa	200



Impact strength Charpy 23°C -20°C	y	ASTM D-256 ASTM D-256	kJ/m² kJ/m²	no break no break
Impact strength Charpy, notched 23°C 20°C		ASTM D-256 ASTM D-256	₩/m² kJ/m²	15 5
Vicat softening point 1,0 kg	:	ASTM D-1525 Rate A	°C	73
HDT	1	ASTM D-648-82	U,45 MPa °C	46
Volume resistivity	<u>!</u>	ASTM D-257	Ωcm	< 104
Surface resistivity		ASTM D-257	U	< 10 ^s
Shrinkage	:	ASTM D-955-73	%	1.4 - 1.8
Hardness Shore A/D	1 2	ASTM D-2240		97/45

PROCESSING

Injection moulding

PRE-ELEC CP 1315 compound can be extruded or injection moulded without modifications in the machines using normal processing conditions as with EVA. Predrying is recommended if the material has been stored for a longer time (min. 3 h at 60°C).

180-220°C

RECOMMENDED PROCESSING PARAMETERS

	Mould	40-80°C
· · ·	Injection pressure	600
	injection speed	moderate
Extrusion	Material temperature	180-20 5 °C
To the second	The heat content of the	compound leaving the

Cylinder-nozzle

The heat content of the compound leaving the machine is high decided to its relatively poor flowing leading to elevated temperatures and increased pressure, which when released is still raising the material's temperature. As the self ignition temperature of polymer/carbon black compounds is around 350°C care must be taken the e.g. purged material will not catch fire. Overheated material car be cooled e.g. with water.

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

FARNELL EVA BENCH & FLOOR MATTING DATA SHEET

- VOLUME CONDUCTIVE
- HUMIDITY INDEPENDENT
- CONDUCTIVITY OF 10³ OHMS
- EXCELLENT LAY FLAT PROPERTIES
- ATTRACTIVE NON SLIP FINISH

DATA SHEET

SG: T.S. YIELD T.S. BREAK E. BREAK VICAT VOLUME RESISTIVITY SURFACE RESISTIVITY 1.16 Mg/m² 9 Mpa 13 Mpa 250% 73°C 10³ ohms per cm.

10³ ohms per sq.

ISO R—1183 ISO R— 527 ISO R— 527 ISO R— 527 ISO R— 306

BS 2050 BS 2050

This specification falls well within the specifications set under British Standard BS 2050