LABORPLAST

PVC

Rods

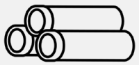
New life to PVC

since 1958

Leader in Italy and Europe, Laborplast operates in the production of recycled PVC cores and compound and PVC rods.

Laborplast S.p.A. was founded in 1958 in a small factory in Sacconago - Busto Arsizio, in the province of Varese.

More than
60 EMPLOYEES



30,000 TONNES
of raw material
processed

6,500 Kg
production capacity per hour

35,000 m²
area

12
production lines

Products

Giving new life to **PVC**

Laborplast produces 3 main types of products:

RECYCLED PVC

Cores

Mainly intended for winding flexible packaging,
agricultural sheeting and non-woven fabrics.

RECYCLED PVC

Compound

Intended to produce extruded and moulded items
for the construction and manufacturing sectors.

PVC

Rods

They are used for various applications:
mechanical, chemical, electrical and design.

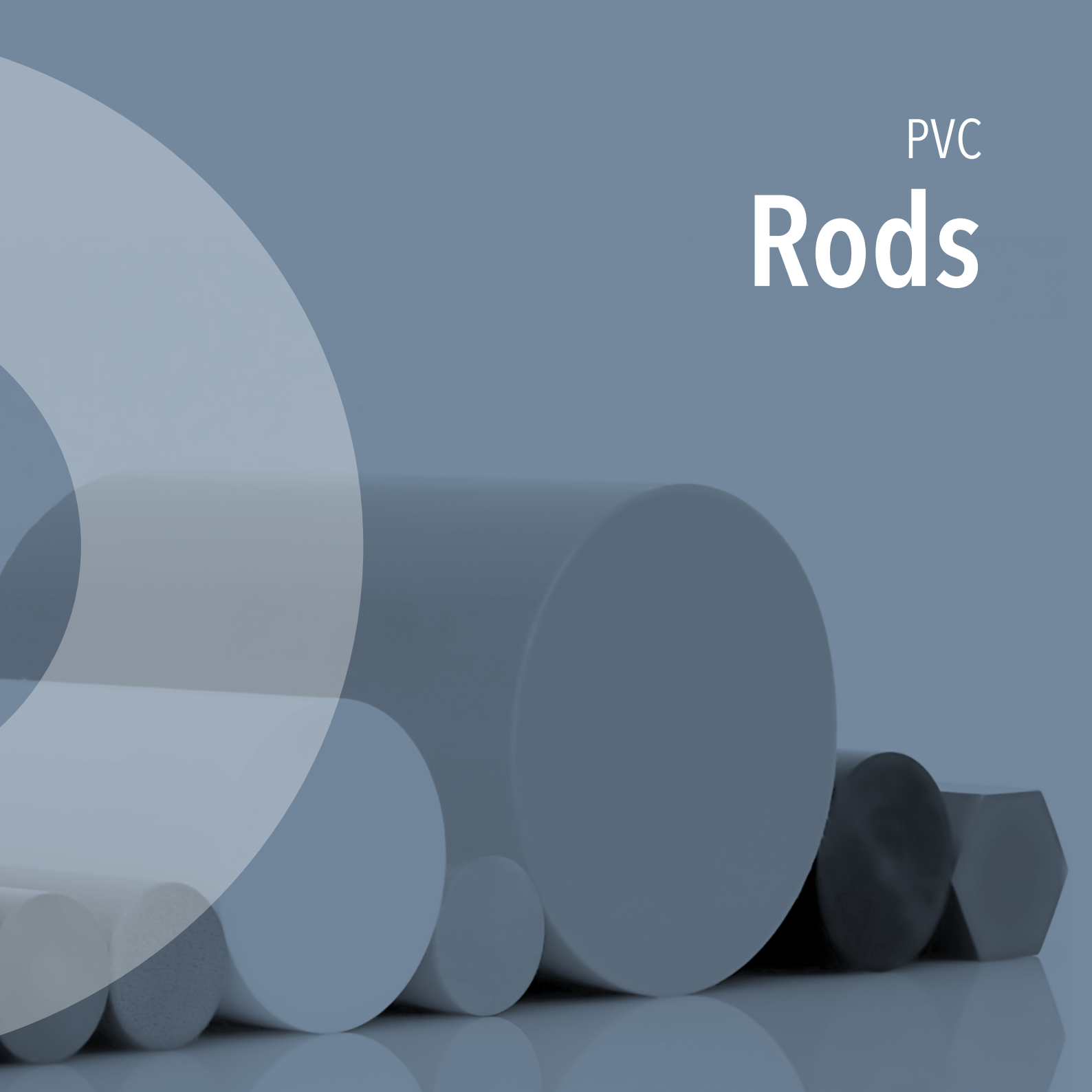
Laborplast supplies 100% Second Life Plastic certified micronized PVC for pipe and profile extrusion (1-M).

Laboratory

Since 2017, **an in-house lab for physical-mechanical, rheological and colorimetric tests** has allowed the testing of compression, tensile, three-point bending, MVR, MFR, VST, HDT, Charpy and Izod impact resistance, thermal stability, rheology, molecular composition of materials.

PVC

Rods



Rigid PVC is an inexpensive raw material with excellent mechanical properties.

It has considerable resistance to many chemicals and weathering, excellent flame resistance (it is self-extinguishing) and good dielectric behaviour.

PVC rods are used for various applications:

Mechanical: production of stressed parts such as gears, screws, fittings and other technical components.

Chemical: production of supports for galvanic baths, flanges, pump casings, and valves.

Electrical: production of insulating bodies.

Design: due to their high aesthetic quality, these products are used as furniture components.

PVC rods are available in the following colours: Grey (RAL 7011), Black, White, Red (other colours available upon request).

ROD
full round

DIAMETER (mm)	5	6	8	10	12	15	16	18	20	22
MAX LENGTH (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
THEORETICAL WEIGHT (g/m)	35	50	90	140	200	305	345	435	535	650

DIAMETER (mm)	25	28	30	32	35	40	45	47.5	50	55
MAX LENGTH (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
THEORETICAL WEIGHT (g/m)	830	1030	1185	1350	1605	2095	2655	2850	3290	3955

DIAMETER (mm)	60	65	70	75	80	85	90	100	110	120
MAX LENGTH (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
THEORETICAL WEIGHT (g/m)	4725	5510	6395	7310	8280	9315	10480	12910	15535	17360

DIAMETER (mm)	130	140	150	160	180	200	225	250	300
MAX LENGTH (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000
THEORETICAL WEIGHT (g/m)	20435	23605	27065	30800	40230	49245	61795	75775	109385

ROD
rectangle

WxH (mm)	80x30	80x50	114x55	125x70	125x75
MAX LENGTH (mm)	3000	3000	3000	3000	3000
THEORETICAL WEIGHT (g/m)	4200	7250	11875	17625	14720

ROD
hollowed round

DIAMETER (ext x int) (mm)	30x10	30x15	35x10	35x15	40x10	40x15	40x20	40x25	45x10	45x15
MAX LENGTH (mm)	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
THEORETICAL WEIGHT (g/m)	1090	980	1510	1400	1950	1900	1660	1440	2560	2450

DIAMETRO (ext x int) (mm)	45x20	45x25	50x15	50x20	50x25	50x30	55x15	55x20	55x25	60x20
MAX LENGTH (mm)	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
THEORETICAL WEIGHT (g/m)	2210	2000	3090	2840	2650	2260	3750	3520	3300	4280

DIAMETER (ext x int) (mm)	60x25	60x30	60x40	65x20	65x25	65x30	65x40	70x20	70x25	70x30
MAX LENGTH (mm)	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
THEORETICAL WEIGHT (g/m)	4070	3690	3120	5070	4860	4480	3910	5960	5740	5360

DIAMETER (ext x int) (mm)	70x40	70x50	75x30	75x40	75x50	80x20	80x30	80x40	80x50	90x25
MAX LENGTH (mm)	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
THEORETICAL WEIGHT (g/m)	4790	3740	6270	5700	4650	7840	7250	6180	5620	9820

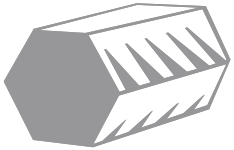
DIAMETER (ext x int) (mm)	90x30	90x35	90x40	90x50	90x60	100x30	100x40	100x50	100x60	100x70
MAX LENGTH (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
THEORETICAL WEIGHT (g/m)	9440	9120	8870	7820	6520	11870	11300	10250	8950	7390

DIAMETER (ext x int) (mm)	100x75	110x50	110x60	110x70	110x75	120x40	120x50	120x60	120x70	120x75
MAX LENGTH (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
THEORETICAL WEIGHT (g/m)	6510	12880	11580	10020	9140	15750	14700	13400	11850	10960

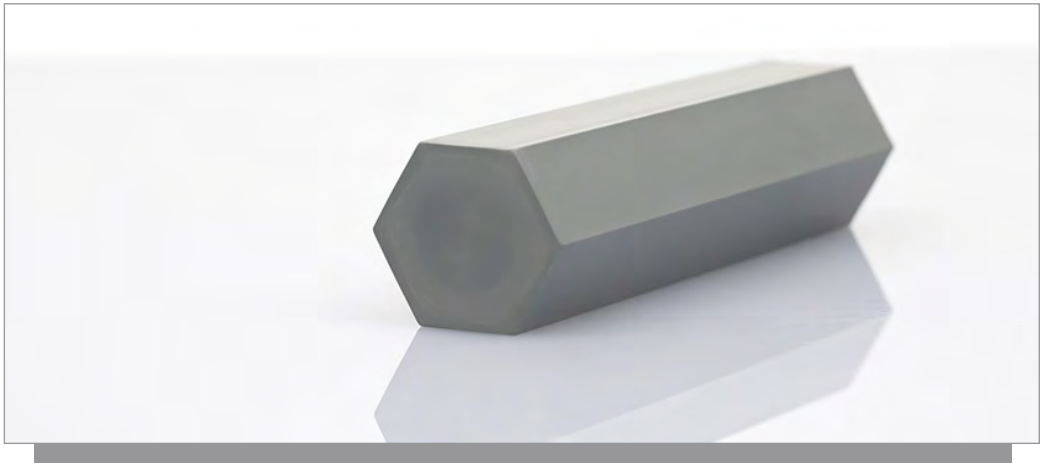
DIAMETER (ext x int) (mm)	120x80	130x50	130x60	130x70	130x75	130x80
MAX LENGTH (mm)	3000	3000	3000	3000	3000	3000
THEORETICAL WEIGHT (g/m)	10050	17780	16680	14920	14030	13120

ROD
square

WxH (mm)	10x10	12x12	15x15	20x20	22x22	25x25	30x30	40x40	50x50	60x60	80x80	120x120
MAX LENGTH (mm)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
THEORETICAL WEIGHT (g/m)	150	240	370	670	720	1100	1480	2560	4630	5750	10680	23750



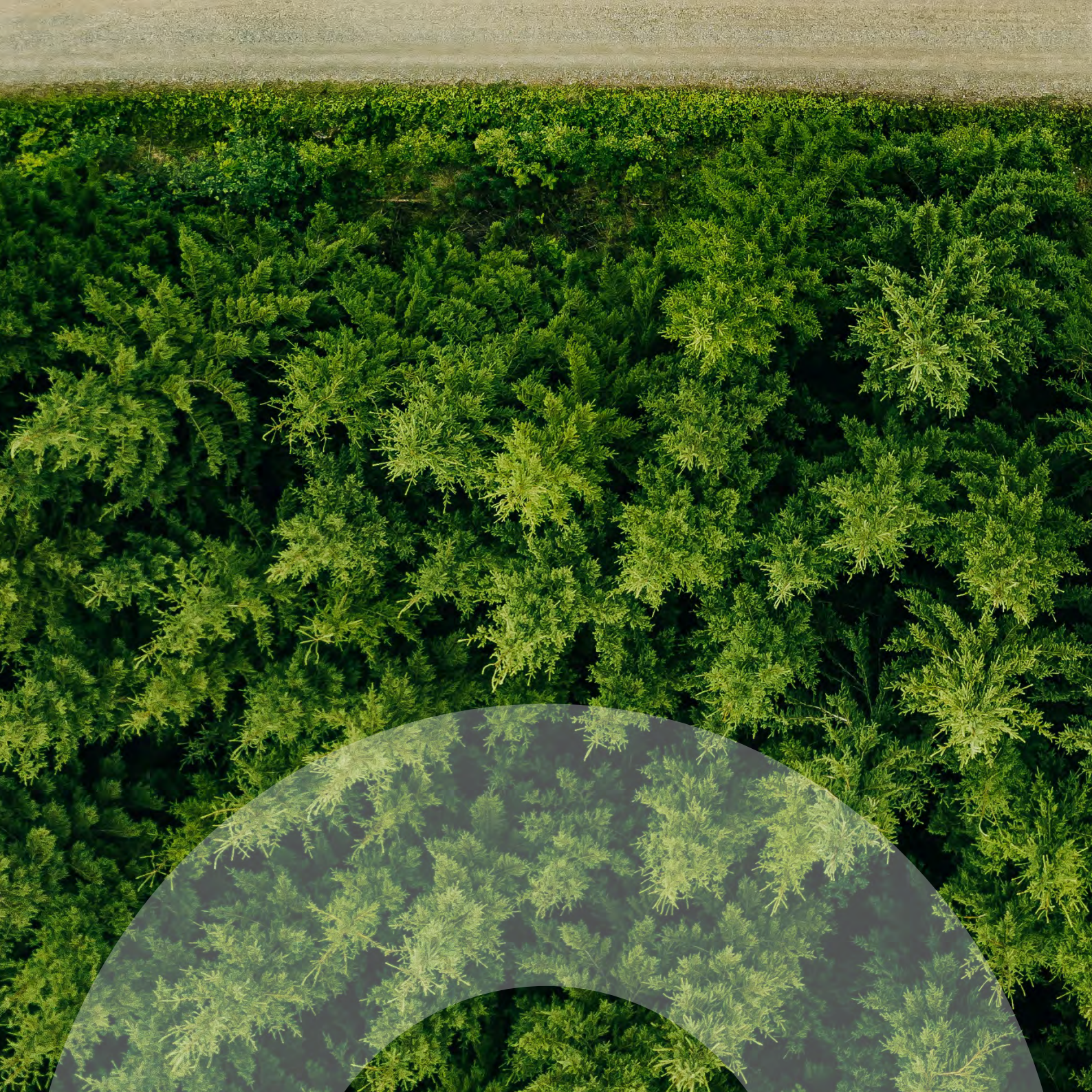
ROD
hexagon



CH (mm)	10	12	14	17	19	22	25	28	32	36
MAX LENGTH (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
THEORETICAL WEIGHT (g/m)	140	210	270	330	500	650	900	1030	1350	1810

DATI TECNICI				
PROPERTIES	**UM**	**METHOD**	**VALUE**	**TOLERANCE**
PHYSICAL PROPERTIES				
Density	g/cm^3	ISO 1183	1.45	±0.03
MECHANICAL PROPERTIES				
Yield strength	MPa	ISO 527	50	>=
Elongation at yield	%	ISO 527	3	>=
Tensile strength at break	MPa	ISO 527	42	>=
Elongation at break	%	ISO 527	150	>=
Young modulus	MPa	ISO 527	2500	>=
Impact resistance	J/m	ISO 180	80	>=
Shore D hardness	°Sh D	ISO 868	79	±3
THERMAL PROPERTIES				
Vicat softening temperature	°C	ISO 306	67	±5
Maximum operating temperature	°C	ND	60	ND
Minimum operating temperature	°C	ND	-10	ND
Thermal conductivity at 23°C	W/(K*m)	DIN 52612	0.14	ND
ELECTRICAL PROPERTIES				
Volume resistance	Ω*m	IEC 60093	10^{15}	ND
Surface resistance	Ω	IEC 60094	10^{13}	ND
Dielectric strength	kV/mm	IEC 60243	30	ND
REACTION TO EXTERNAL AGENTS				
Flammability	ND	UL94	V0	ND
Water absorption at saturation	%	ISO 62	0.2	ND

These products are available in the following colours: **Grey (RAL 7011), Black, White, Red** (other colours available upon request).



Sustainability

Sustainability is our everyday business

People, Planet, Profit

Sustainability is a challenge that sees Laborplast at the forefront in addressing the environmental and social impact on its employees and the external community.

Laborplast sees future as the result of a joint project, where sustainability is systemic and directly involves environmental, social and economic development. This is known as the 3P Strategy, or “Triple Bottom Line”.

Certifications

ISO 9001:2015
(Quality)

ISO 14001:2015
(Environment)

ISO 45001:2018
(Safety)

ISO 50001:2018
(Energy)

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