

ISOSEAL® P 0713, P 2729

Composition:

ISOSEAL® P consists of polyester-fabric impregnated with a thermosetting epoxy-resin which remains flexible after curing.

Properties:

The difference between ISOSEAL P 0713 and ISOSEAL P 2729 lays in the B-stage grade. ISOSEAL P 2729 shows lower resin flow. The selection between the two types depends on the individual application.

The standard type is ISOSEAL P 0713.

The resin in ISOSEAL® P is softening under temperature and gives a tight and smooth and waterproof surface after curing.

ISOSEAL® P remains flexible after curing and coils can be formed without damage of the insulation.

ISOSEAL® P has very good tension and elongation properties and therefore a taping without creation of wrinkles is possible.

Application:

ISOSEAL® P are mainly used as final layer in the overhang part of low and high voltage coils and wherever a flexible waterproof insulation is required.

Formats:

Rolls: max. width 1100 mm

Tapes: from 10 mm width upwards

ISOSEAL® P 0713 is supplied interleaved.

Storability:

min. 6 months at 20° C

min. 12 months at 5° C

Curing condition:

6 hours at 140° C or

2 hours at 160° C

Technical Data

ISOSEAL®			P 0713 (Standard Type)	P 2729
Properties	Test method	Unit	Value	Value
Nominal thickness	DIN 0863	mm	0.18	0.18
Tolerance	DIN 0863	mm	± 0.03	± 0.03
Total substance	IPV 4	g/m ²	235 ± 24	235 ± 24
Tensile strength	DIN 53455	N/10mm	≥ 100	≥ 100
Elongation	DIN 53455	%	≥ 15	≥ 15
Breakdown voltage	IEC 243	kV	≥ 5	≥ 5
Dielectric strength (after curing)	IEC 243	kV/mm	approx. 25	approx. 25
Tracking resistance (after curing)		KB	≥ 150	≥ 150
Shrinkage (after 1 hour 160° C)	IPV 22	%	approx. 2	
Colour			red-brown	red-brown
Thermal classification	IEC 216	°C	155 (F)	155 (F)