



ROYAL DIAMOND

your insulation partner



Royalac / Antiflash

Diapol / Royapox

Flexible Laminates

Complements



Electrical Insulation System

We understand electrical insulation as an integrated system. Accordingly we offer varnishes, resins, flexible laminates and complementary products to satisfy your electrical insulation needs.



Customized Solutions

We are close to our customers to design their customized solution according to exact application needs.



International Global Reach

We have established a network of distributors with national and international reach offering excellence in service.

Royalac / Antiflash



Diapol



Royapox



Flexible Laminates



Complements





Royalac

Varnishes for impregnation and finishing

Antiflash

Electroenamels

Available formats:



	Product	Chemical Nature	Thermal Class	Drying Method	Base
IMPREGNATION	ROYALAC 30	ALKYDIC	B (130°C)	AIR	SOLVENT
	ROYALAC 125	POLIISOCIATO	F (155°C)	AIR	SOLVENT
	ROYALAC 129	URETHANIC	F (155°C)	AIR	SOLVENT
	ROYALAC 158/4	UREA / FORMALDEHYDE	F (155°C)	OVEN	SOLVENT
	ROYALAC 521	ALKYDIC/EPOXY	F (155°C)	OVEN	SOLVENT
	ROYALAC 525MA	ALKYDIC/EPOXY	H (180°C)	OVEN	SOLVENT
	E-524TS (UL)	ALKYDIC/EPOXY	H (180°C)	OVEN	SOLVENT
	WE203 (UL)	ALKYDIC	H (180°C)	OVEN	WATER
	ROYALAC 210SR	SILICONE	H (180°C)	AIR/OVEN	SOLVENT

Available formats:



	Product	Chemical Nature	Thermal Class	Drying Method	Base
FINISHING AND PROTECTION	ANTIFLASH G-142 (UL)	ALKYDIC/EPOXY	F (155°C)	OVEN	SOLVENT
	ANTIFLASH G-144 (UL)	ALKYDIC	F (155°C)	AIR	SOLVENT
	ANTIFLASH 505 (UL)	EPOXY	H (180°C)	AIR/OVEN	SOLVENT
	ANTIFLASH 214SR (UL)	ALKYDIC/SILICONE	H (180°C)	AIR/OVEN	SOLVENT



Diapol

Impregnation, encapsulation and filling polyurethane resins

- ✓ Customized solution
- ✓ Self extinguishing
- ✓ Color range
- ✓ Exothermic level

Available formats:



	Product	Chemical Nature	Thermal Class	Drying Method
ENCAPSULATION AND FILLING	DIAPOL 507	POLYURETHANE	B (130°C)	AIR
	DIAPOL 508	POLYURETHANE	B (130°C)	AIR
	DIAPOL 509	POLYURETHANE	B (130°C)	AIR
	DIAPOL 508/2	POLYURETHANE	B (130°C)	AIR
	DIAPOL 509FG SELF-EXTINGUISHING (UL)	POLYURETHANE	B (130°C)	AIR
	DIAPOL 5174C	POLYURETHANE	B (130°C)	AIR
IMPREGNATION	DIAPOL 790SL (UL)	POLYESTER SOLVENTLESS	H (180°C)	OVEN
	DIAPOL 788/200	POLYESTERIMIDE	N (200°C)	OVEN

Royapox

Impregnation, encapsulation and filling epoxy resins



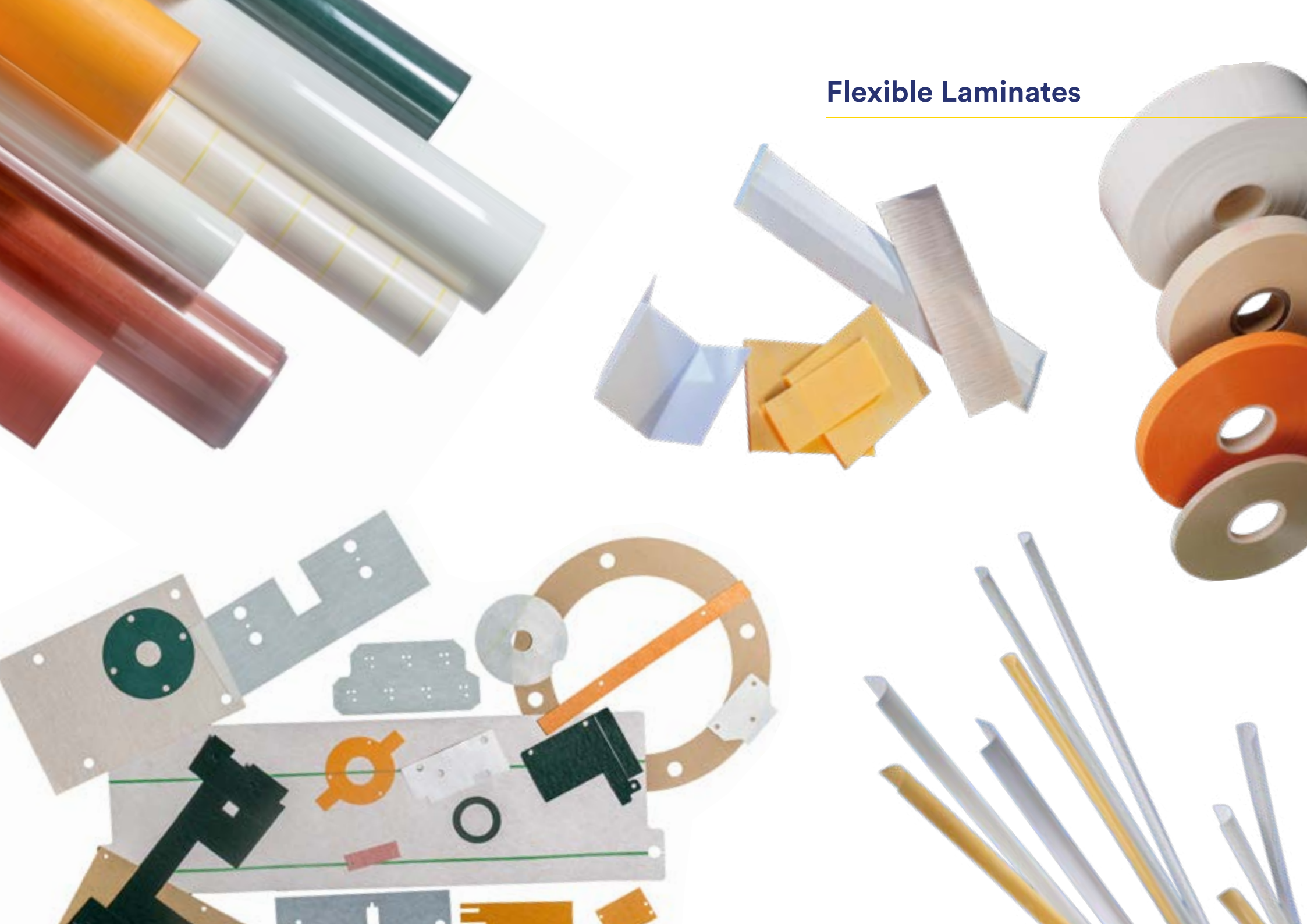
- ✓ High level of chemical resistance
- ✓ Great resistance to humidity
- ✓ Excellent mechanical properties
- ✓ Good thermal conductivity
- ✓ Different thermal classes
- ✓ High dielectric power

Available formats:

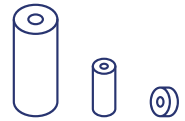


	Product	Chemical Nature	Thermal Class	Drying Method
ENCAPSULATION AND FILLING	ROYAPOX 5050CD	EPOXY	B/F (130/155°C)	AIR
	ROYAPOX 959 (UL)	EPOXY	B (130°C)	AIR
	ROYAPOX 502F (UL)	EPOXY	H (180°C)	OVEN
	ROYAPOX 502FC	EPOXY	H (180°C)	OVEN
IMPREGNATION	ROYAPOX 511	EPOXY	F (155°C)	AIR
	ROYAPOX 512	EPOXY	F (155°C)	OVEN
	ROYAPOX 915	EPOXY SOLVENTLESS	H (180°C)	OVEN

Flexible Laminates



Available formats:



	Product	Material	Thermal Class	Thickness
NOT IMPREGNATED	POLYESTER FILM	POLYESTER	B (130°C)	From 0,023 to 0,35 mm
	TERCOTT K	KRAFT	B (130°C)	From 0,03 to 0,30 mm
	TERCOTT CF	PRESSPAN	B (130°C)	From 0,15 to 0,40 mm
	TERCOTT MTS (UL)	DMD	B/F (130/155°C)	From 0,11 to 0,45 mm
	THERNOPHASE (UL)	DMD INTERPHASE	F (155°C)	From 0,30 to 0,40 mm
	TUFQUIN TFT (UL)	TUFQUIN BASED	H (180°C)	From 0,13 to 0,51 mm
	THERNOMID AFA (UL)	ARAMIDE BASED	H (180°C)	From 0,14 to 0,47 mm
	TUFQUIN TPiT (UL)	TUFQUIN BASED	N (200°C)	From 0,12 to 0,32 mm
	THERNOMID APiA (UL)	ARAMIDE BASED	N (200°C)	From 0,13 to 0,30 mm
	THERNOMID KRG	POLYIMIDE GLASS	S (240°)	From 0,12 to 0,24 mm
IMPREGNATION	THERNOMID 10.04VF	DM IMPREGNATION	F (155°C)	From 0,06 to 0,30 mm
	TRIPLEX F20.08 (UL)	DMD IMPREGNATION	F (155°C)	From 0,13 to 0,45 mm
	ROYAPREG (UL)	DMD PREPREG	F (155°C)	From 0,11 to 0,33 mm
	AFA PREPREG (UL)	ARAMIDE BASED PREPREG	H (180°C)	From 0,14 to 0,24 mm

Complements



	Product	Composition	Thermal Class	Diameter	Insulation
FLEXIBLE INSULATING TUBES	ROYAFLEX F*	GLASS PLAIT POLYURETHANE	F (155°C)	From 0,5 to 16 mm	4000 w
	ROYAFLEX H	GLASS PLAIT SILICONE	H (180°C)	From 0,5 to 16 mm	5000-7500 w

* Available in different colors and cut to size



	Product	Composition	Roll Size	Diameter
ELECTRICAL CABLES	ROYASIL CS*	SILICONE	100 ml	1,90 - 8,40 mm
	ROYASIL CSP*	SILICONE COVERED POLYESTER PLAID	100 ml	1,80 - 35,4 mm
	ROYASIL TPT	POLYESTER FILM UNCOVERED POLYESTER PLAID	100 ml	2,1 - 13,8 mm

* Available in different colors

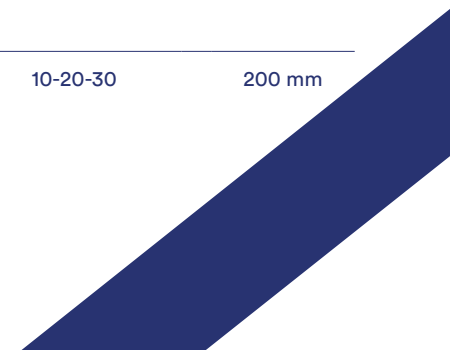
















	Product	Composition	Thermal Class	Thickness
ADHESIVE TAPES	TECROLL 10B*	YELLOW POLYESTER FILM	B (130°C)	0,06 mm
	TECROLL 11B	YELLOW POLYESTER FILM	B (130°C)	0,06 mm
	TERDUR 32	POLYESTER FILM FABRIC WITHOUT STRENGTHENED WEAVE	B (130°C)	0,13 mm
	TECROLL 4B	POLYESTER FILM FABRIC WITHOUT STRENGTHENED WEAVE	B (130°C)	0,14 mm
	TECROLL 77AH	GLASS FABRIC	F (155°C)	0,17 mm
	TECROLL 76SH	GLASS FABRIC	H (180°C)	0,18 mm
	TECROLL 71SL	KAPTON FILM	H (180°C)	0,06 mm

* Available in different colors



	Composition	Type	Thermal Resistance	Thickness	Width	Roll Length
TEXTIL TAPES	COTTON	EVEN COTTON	105°C	0,2 mm	From 10 to 30 mm	50 mm
		SERGE COTTON		0,3 mm		
	POLYESTER	EVEN POLYESTER	150°C	0,15 mm	From 10 to 30 mm	50 mm
		SERGE POLYESTER		0,2 mm		
GLASS TEXTILE TAPES	GLASS	VIRGIN GLASS TEXTILE TAPES	500°C	0,08 mm	15-20-25-30	50 mm
				0,13 mm		
				0,18 mm		
	IMPREGNATION GLASS	BAND TAPE	155°C	0,3 mm	10-20-30	200 mm



	Color		Thermal Class	Description		
ROYACOLOR		Ral.1026		Ral.7010	B (130°C)	Spray electrical motor paint
		Ral.1023		Ral.7030	B (130°C)	Spray electrical motor paint
		Ral.2001		Ral.7031	B (130°C)	Spray electrical motor paint
		Ral.3000		Ral.7046	B (130°C)	Spray electrical motor paint
		Ral.5009		Ral.6000	B (130°C)	Spray electrical motor paint
		Ral.5024		Ral.6011	B (130°C)	Spray electrical motor paint
		Ral.5010		Ral.9011	B (130°C)	Spray electrical motor paint

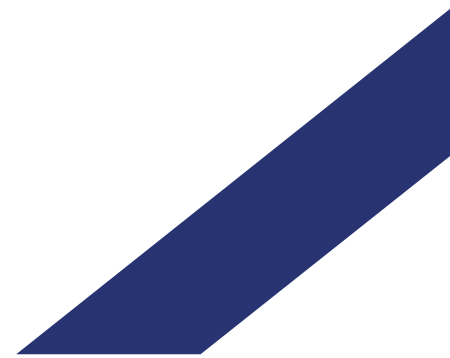




	Product	Application
SPRAY PRODUCTS	SILICONE SPRAY	Anti-corrosive, lubricant, electric insulation, highly anti-adhesive (allows easy extraction from mould)
	DISOLIMP F	Grease removing solvent for cleaning electric motors and electric panels



	Product	Thermal Class	Material	Supply
CLOSING WEDGES (ELECTRIC MOTOR SLOTS)	BEECH WOOD	E (120°C)	Dehydrated beech wood	Packs of 100 ud. x 1 m
	EPOXY GLASS	F (155°C)	Stratified plaques made up of glass fabric and epoxy resin	Packs of 25 ud. x 1 m





ROYAL DIAMOND
your insulation partner

Our values:

Tradition

More than 50 years dedicated to electrical insulation for different sectors. A combination of values, experience and know-how make us your best partner for your electrical insulation needs.

Customization

We understand electrical insulation like a system integrated of resins, varnishes and flexible laminates as individually designed for any sector and Client.

Human Team

Our Team is made up of more than 50 people who transmit naturally the values of the company.

Quality

The quality in our company and our products is a must and we work under ISO 9001:2015 certification.

Our target is to be your best **partner** to create great projects together.

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