AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

PYRO-SAFE ® B PX 2100 - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

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以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

PYRO-SAFE® B PX 2100

PUR protective coating and casting compound

Description

PYRO-SAFE® B PX 2100 is a flame retardant, flexible and cold curing polyurethane compound. It consists of two components and can be used for temperature ranges from -40 to +90 °C. It is particularly suitable as a potting resin system with electrically insulating properties in heavy-duty applications. It is used as a moisture-resistant, gas-proof and pressurised water-proof coating, potting or filler for electrical components up to the high-voltage range.



Areas of Application

- module & system level
- on request

Delivery and Packaging

PYRO-SAFE® B PX 2100	Kombidose	Combination	Resin	Hardener	
Packaging	Two-component tin	Cartridge	Pail	Pail	
Size	1 kg	345 ml	20 kg	5 kg	20 kg
Article number					
	3125671	3146603	3146403	3146624	3146142

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PYRO-SAFE® B PX 2100

Technical Data

		PYRO-SAFE® B PX 2100 (resin)	PYRO-SAFE® B PX 2100 (hardener)
Colour/odour		brown/odourless	
Density (+20 °C)		1.62 g/cm³	1.22 g/cm³
Mixed density		1.58 g/cm³	
Mixing ratio (wt%)		91 parts	9 parts
Electric strength		> 4 kV/mm	> 1.33 kV/mm
		> 4 kV	> 4 kV
Thermal conductivity [W/(m·K)]		t = 3 mm	t = 5 mm
	25 °C	0.620	0.618
	40 °C	0.592	0.598
	60 °C	0.561	0.594
	80 °C	0.507	0.571
Application temperature		> +5 °C / rel. humidity < 80 %	
Viscosity		approx. 40 000 mPa·s	approx. 110 mPa·s
Viscosity of the mixture		approx. 20 000 mPa·s	
Waterproofness		2.5 bar	
Gas tightness		technically tight depending on layer thickness up to 1 bar helium gas pressure	
Pot life of the mixture (Bookfield RVT, +23 °C, 300 g)		60 min	
Chem. curing of the mixture		16–24 hrs	
Flash point		> 200 °C	
Application instructions		The casting compound is prepared by carefully mixing the hardener component into the resin (recognisable by a uniformly coloured casting compound). The finished mixture – depending on the ambient temperature – can be worked for approx. 40–60 minutes (depending on batch size and temperature). Care must be taken that neither the components nor the uncured mixture come into contact with moisture of any type. Moisture triggers unwanted chemical reactions, causes the material to foam and changes the property values.	
Storage		+10 and +40 °C	
		12 months	6 months (determining factor)
Safety information		Consult the safety data sheet for further information.	

Moulding material

Shore hardness (DIN 53505)	88–93 Shore A; 45–50 Shore D
Post-curing of the samples	24 hrs / 80 °C
Burning behaviour according to UL 94	VO
Creepage resistance	CTI 600 (DIN/IEC 112)
Chemical resistance	resistant to liquids on the basis of DIN EN ISO 2812-1 and DIN EN ISO 2812-2