

Two-component PUR cast resin flame retardant

Specially developed for use in mining. It meets the requirements for cast resin moulding according to DIN VDE 0291 Section 2 on filling the cable sets or parts thereof for the following types of cables: Power cables with a nominal voltage up to 1 kV - GNH, power cables with a nominal voltage up to 10 kV - GMH and telecommunication and signal cables - GFH.



Product description

Article name	UG 1850
Article number	131331
Notes	Other sizes available on request. The European Commission amended Annex XVII of the REACH Regulation (EC) (new number 74) with Regulation (EU) 2020/1149, which entered into force on 24 August 2020. In accordance with the new REACH Regulation, appropriate training will be required prior to the industrial or professional use of diisocyanates, adhesives and sealants as of 24 August 2023. All information regarding training materials and training courses is available on the ISOPA/ALIPA website https://www.safeusediisocyanates.eu/

Characteristics
Favourable flow properties
High hydrolysis resistance
Stabilized against UV rays
Halogen-free
Resistant to alkaline earth elements
Resistant to chemical agents
Flame retardant
Not harmful to the environment
Low smoke emission in case of fire
No fracturing under electrical stress
Excellent adhesion to all cable materials
No fracturing under mechanical tension
Excellent adhesion to all cable materials
No fracturing under mechanical tension

Technical data

Article name	UG 1850
Article number	131331
Test standards	DIN VDE 0472-804
	DIN VDE 0472-814
	DIN VDE 0472-813
	DIN VDE 0278-631-1
Content	1850 ml
Flash point of cast resin component (open cup)	> 200 °C
Flash point of reactant (open cup)	> 200 °C
Processing time (pot life) 300 ml mixture 5 °C	23 minutes
Processing time (pot life) 300 ml mixture 23 °C	16 minutes
Processing time (pot life) 300 ml mixture 35 °C	12 minutes
Reaction temperature max	78 °C
Total volume shrinkage during curing	2.5 %
Impact strength	> 20 kJ/m ²
Water absorption in warm water (42 d at 50 °C)	250 mg
Electrolytic corrosion	A 1,2
1 minute test voltage at 23 °C Test voltage 1 minute at 23 °C	38 kV
1 minute test voltage at 80 °C Test voltage 1 minute at 80 °C	35 kV
Dielectric dissipation factor at 23 °C and 1 kHz	0.02
Dielectric dissipation factor at 23 °C and 50 Hz	0.03
Dielectric dissipation factor at 50 °C and 50 Hz	0.06
Dielectric dissipation factor at 80 °C and 50 Hz	0.15
Dielectric constant at 23 °C and 1 kHz	4.1
Dielectric constant at 23 °C and 50 Hz	4.3
Dielectric constant at 50 °C and 50 Hz	5.5
Dielectric constant at 80 °C and 50 Hz	7.2
Tracking resistance	KA 3c
Hardness	80 Shore D
Density	1.4 g/cm ³
Density cured casting compound (associated standard)	ISO 1183-1

Logistics data

Article name	UG 1850
Article number	131331
Delivery scope	Cast resin
	Packed in practical and easy-to-use two-chamber bags
Shelf life	24 Month
Shelf life description	In aluminium bag
Storage temperatur max	35 °C
Storage temperatur min	15 °C
Country of origin	Germany
Customs tariff number	39095090
EAN/GTIN	4010311086316

Packaging data

Packaging type	Case	Pal. OW
Content quantity	1	100
Unit of measure	Piece	Piece
Lenght (mm)	339	1200
Width (mm)	215	800
Height (mm)	55	770
Net weight (kg)	2.673	267.3
Gross weight (kg)	2.673	285.5