UG
Two-component PUR cast resin
flame retardant

Cast resin UG meets the higher fire protection requirements and was 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.



Characteristics
- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- Fast-hardening
- High hydrolysis resistance
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Halogen-free
- Flame retardant
- Not harmful to the environment
- Low smoke emission in case of fire
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials

Test standards
- Flame retardation in accordance with DIN VDE 0472 Section 804, test typ C
- Properties of insulation against flames in accordance with DIN VDE 0472 Section 814
- Corrosiveness of combustion gases in accordance with DIN VDE 0472 Section 813
- DIN VDE 0278-631-1

Storage conditions/Shelf life
- In aluminium bag 24 months at ambient temperatures between 15 °C and 35 °C

Scope of delivery
1 PU

Note: Other sizes available on request.

Type		Content ml	Art.-No.
UG	80	80	125286
	143	143	125287
	286	286	125288
	464	464	125289
	730	730	125290
	1000	1000	125291
	1850	1850	131331
	2000	2000	135533

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Technical data	Value
Flash point of cast resin component (open cup) Flash point of reactant (open cup)	> 200 °C > 200 °C
Processing time (pot life) 300 ml mixture at 5 °C 23 °C 35 °C	 23 minutes 16 minutes 12 minutes
max. Reaction temperature	78 °C
Total volume shrinkage during curing	2.5 %
Density	1.40 g/cm³
Impact strength	> 20 kJ/m²
Hardness	80 Shore D
Combustibility	Category 2A
Water absorption in warm water (42 d at 50 °C)	 250 mg
Water absorption in cold water (24 h at 23 °C)	 18 mg
Electrolytic corrosion	A 1.2
1 minute test voltage at 23 °C 80 °C	 38 kV 35 kV
Dielectric dissipation factor at 23 °C and 1kHz 23 °C and 50 Hz 50 °C and 50 Hz 80 °C and 50 Hz	 0.02 0.03 0.06 0.15
Dielectric constant at 23 °C and 1 kHz 23 °C and 50 Hz 50 °C and 50 Hz 80 °C and 50 Hz	 4.1 4.3 5.5 7.2
Tracking resistance	KA 3c