Cast-Resin Cable Accessories

U_0/U (U_m) 0.6/1.0 (1.2kV)

Cast Resin Joints

Low Voltage Cast Resin Straight Through Joints

Cast Resin Technology

Type tested acc. to EN50393 (Cenelec HD623 S1:1996)

Resin filled straight joints for cables with XLPE, PVC EPR ,and Paper insulation;
NYY, NAYY, CYKY, NYCY, NAYCWY, NYCWY, SZAMtKAtM, SZRMtKVM-J U_o/U (U_o) (kV) 0.6/1 (1.2kV)

PUR cast resin technology was especially developed to seal and protect power, signal and telephone cables. This new generation of two component cast resin has been developed for the most demanding environments and circumstances. Our cast resin joints have been tested according to EN50393 standards, assuring only the highest quality. Quick setting properties in humid or even cold conditions make it a fast and reliable solution.

No need to measure or mix with spatula. just remove the dividing rail from the laminated Al-Pe bag and mix together. No spillage, or mess at installation site. An extended shelf-life of the resins are now 48 months* as standard even in the most difficult storage conditions. The kit shells are made of high quality shatter proof PC (polycarbonate) resulting in excellent hydrophobic properties and unmatched impact resistance. The resin has good adhesion to PVC and metals ensure a watertight seal and excellent impact resistance.

IMPORTANT: Product available separately, and can be supplied in tins . Shelf life up to 48 months, in ambient conditions of 15℃ to 35℃. Special quantity pack available on request.

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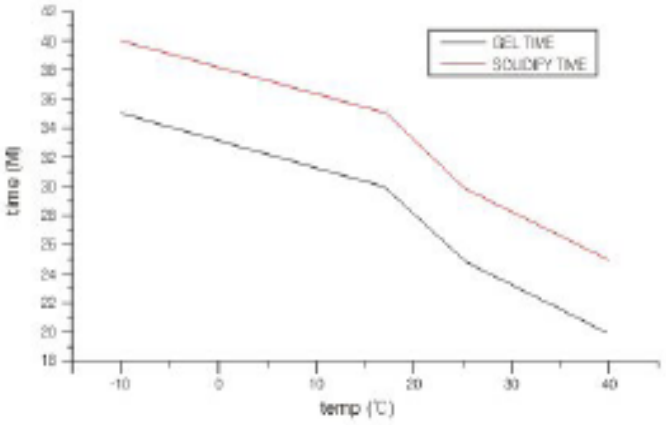

Table 1. shows gel time and complete solidifying time (shown in minutes) curves for installation reference at variable temperatures.

Technical Data of PU25	Value	According to DIN VDE 0291
Pot life @ 5℃ 23℃ 35℃	 35 min 20 min 15 min	 product conforms ±30%
Reactant Open cup flash point	>200℃	>55
Tensile strength	⩾8.0 Mpa	⩾5.0
Hot aging	-5 Shore A	-7
Adhesive	>1500 CP. S	<1500
Tear elongation	⩾100%	⩾50
Gel time for 300 ml @ Pouch >1000ml Pouch <1000ml	23℃ 26 min 17 min	 product conforms ±10% product conforms ±10%
Max. reaction temp Total vol. variable when hardening	60℃/333K 6%	product conforms ±10% max. 6.5%
Cast resin component Open cup flash point	>200℃	>100
Density	1.07g/cm³	-
Impact strength	>10kJ/m²	> 10kJ/m²
Hardness	75 Shore A	min. 20 Shore D

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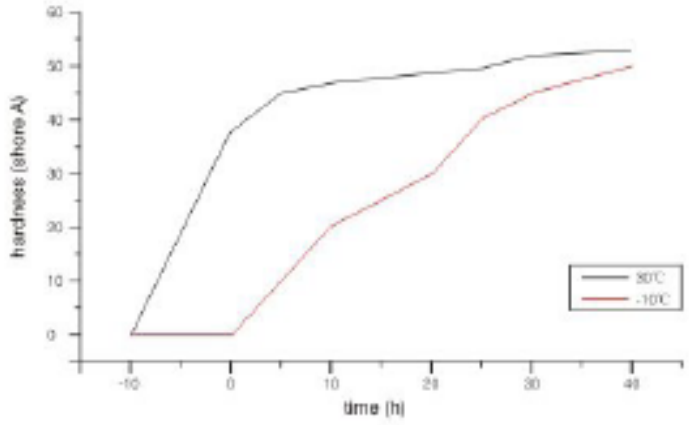

Table 2. shows hardness levels (shore A) together with elapsed time in hours at variable temperatures.

Technical data	Value	According to DIN VDE 0291
Expansion coefficient in temp range of 20-50°C	5.9 x 10^{-4} K^{-1}	product conforms ±15%
Thermal conductivity	0.2W x m^{-1} x K^{-1}	product conforms ±20%
Flammability	Class II c	acc to DIN VDE 0304, part 3
Water absorption 42 days@50°C	360mg	max. 400 mg
Electrolytic corrosion	A 1	-
Voltage test@		no breakdown @ test voltage
23°C	>20kV	20kV
80°C	>10kV	20kV
Dielectric dissipation factor		
@ 23°C and 50Hz	0.08	max. 0.1
@ 23°C and 1kHz	0.05	-
Relative permittivity		
23°C @ 50Hz	5	< 6
23°C @ 1kHz	5.1	-
Tracking resistance	KA 3c	min. KA 3c
Physical values after 28 days of immersion in 90°C water		
Tensile strength	8.2N/mm^2	≥65% of initial value
Elongation at break	60%	≥65% of initial value
Hardness	47 Shore	≥80% of initial value

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Type	Cable Size mm²	L(mm)	H(mm)	D1 (mm)	D2(mm)
HCRK-S1	4 x 1.5 - 10	202	36	8	26
HCRK-S2	4 x 10 - 25	260	47	16	32
HCRK-S3	4 x 35 - 50	360	55	21	38
HCRK-S4	4 x 50 - 70	400	70	26	41
HCRK-S5	4 x 95 - 150	530	100	35	56
HCRK-S6	4 x 185 - 300	700	125	47	74