Cast Resin PU 300

Properties	
Application	for voltages up to 1 kV
Basis	PUR
Mixing Ratio	100 : 35
After Hardening	soft-elastic
PUR Compound	
Flash Point	> 140°C
Viscosity (23°C)	app. 2.200 mPa*s
Hardener	
Flash Point	> 200°C
Viscosity (23°C)	app. 250 mPa*s
Reaction Compound	
Viscosity (after 5 min. at starting temperature 23°C)	app. 1.600 mPa*s
Pot Life at 5°C at 23°C at 35°C	app. 30 min. app. 15 min. app. 10 min.
max. Reaction Temperature (after 20 min. at starting temperature 35°C)	80°C
Volume Shrinkage	app. 2 %
Cast Resin - Moulded Material	
Physical Structure	free of bubbles
Density (20°C)	1,23 g/cm^3
Hardness Shore D (23°C)	app. 50

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Properties	
Gas Evolution (cured under water)	< 10 ml
Tightness between cable cores and cast resin	no cracks
Heat Deformation (Martens Test)	20°C
Water Absorption in cold water storage 24 hours / 23°C storage 42 days / 50°C	 18 mg 243 mg
Behaviour to Liquids (e.g. 0,1 n H_2SO_4, ASTM-Oil No. 2, saturated lime water)	 resistant
Test Voltage 1 min. at 23°C 80°C	 20 kV 20 kV
Volume Resistivity at 23°C 50°C 80°C 23°C after 24 h storage in water	 3,4 E 14 Ohm x cm 2,1 E 13 Ohm x cm 1,7 E 12 Ohm x cm 7,3 E 13 Ohm x cm
Dissipation Factor tan δ at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	 0,0585 0,1290 0,1140
Dielectric Constant at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	 4,08 6,42 7,71
Temperature Resistance	-25 °C up to +120 °C