

Cast Resin PU 910



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Properties	
Application	for voltages up to 10 kV
Basis	PUR
Mixing Ratio	100 : 36
After Hardening	soft-elastic
PUR Compound	
Flash Point	> 140°C
Viscosity (23°C)	app. 1.600 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. 1.300 mPa*s
Pot Life at 5°C	app. 65 min.
at 23°C	app. 30 min.
at 35°C	app. 20 min.
max. Reaction Temperature (after 30 min. at starting temperature 35°C)	90°C
Volume Shrinkage	app. 2 %
Cast Resin - Moulded Material	
Physical Structure	free of bubbles
Density (20°C)	1,14 g/cm ³
Hardness Shore D (23°C)	app. 50

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properties	
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	23 mg 310 mg
Behaviour to Liquids (e.g. 0,1 n H ₂ SO 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	1,8 E 14 Ohm x cm 3,5 E 11 Ohm x cm 5,0 E 10 Ohm x cm 4,2 E 13 Ohm x cm
Dissipation Factor tan δ at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	0,067 0,109 0,238
Dielectric Constant at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	4,11 6,24 7,68