

# Cast Resin PU 304



<b>Properties</b>	
<b>Application</b>	for voltages up to 1 kV
<b>Basis</b>	PUR
<b>Mixing Ratio</b>	100 : 28
<b>After Hardening</b>	soft-elastic
<b>PUR Compound</b>	
<b>Flash Point</b>	> 140°C
<b>Viscosity (23°C)</b>	app. 4.000 mPa*s
<b>Hardener</b>	
<b>Flash Point</b>	> 200°C
<b>Viscosity (23°C)</b>	app. 250 mPa*s
<b>Reaction Compound</b>	
<b>Viscosity</b> (after 5 min at starting temperature 23°C)	app. 2.500 mPa*s
<b>Pot Life</b> at 5°C at 23°C at 35°C	app. 30 min. app. 15 min. app. 8 min.
<b>max. Reaction Temperature</b> (after 20 min. at starting temperature 35°C)	app. 85°C
<b>Volume Shrinkage</b>	app. 2 %
<b>Cast Resin - Moulded Material</b>	
<b>Physical Structure</b>	free of bubbles
<b>Density (20°C)</b>	1,34 g/cm <sup>3</sup>
<b>Hardness Shore D (23°C)</b>	app. 60

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Properties	
<b>Gas Evolution</b> (cured under water)	< 10 ml
<b>Tightness</b> between cable cores and cast resin	no cracks
<b>Temperature of Deflection under Load</b> (ISO 75-2)	50°C
<b>Water Absorption</b> in cold water storage 24 hours / 23°C storage 42 days / 50°C	0,1 % 1,6 %
<b>Behaviour to Liquids</b> (e.g. 0,1 n H <sub>2</sub> SO <sub>4</sub> , ASTM-Oil No. 2, saturated lime-water)	resistant
<b>Test Voltage</b> 1 min. at 23°C 80°C	> 20 kV > 20 kV
<b>Volume Resistivity</b> at 23°C 50°C 80°C 23°C after 24 h storage in water	1 10 <sup>14</sup> Ohm x cm 1 10 <sup>13</sup> Ohm x cm 1 10 <sup>12</sup> Ohm x cm 7,5 10 <sup>13</sup> Ohm x cm
<b>Dissipation Factor</b> tan δ at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	0,0613 0,1230 0,1080
<b>Dielectric Constant</b> at 23°C/50 Hz 50°C/50 Hz 80°C/50 Hz	4,28 6,46 7,61
<b>Tracking Resistance</b> (VDE 0303 part 1, -3)	KA 3c
<b>Fire Behaviour</b> (VDE 0304 part 3)	II A
<b>Impact Strength</b> (DIN 16946, DIN 53479)	40-50 mJ/mm <sup>2</sup>
<b>Tensile Strength</b> (DIN 53455)	15-20 N/mm <sup>2</sup>
<b>Thermal Conductivity</b> (VDE 0304 Part 1)	0,373 W/Km