

## Technical Data for Instrument Enclosures

Material	Hot-pressed glassfibre reinforced polyester (GRP, SMC)		
	<b>Normal</b>	<b>option "GO"</b>	<b>Standard</b>
Colour	Light grey RAL 7032	RAL 7001	
Antistatic	No	Antistatic to avoid electrostatic charges	DIN EN IEC 60079-0
Specific volume resistivity	$>10^{14}$ Ohm/ cm	$>10^6$ Ohm/ cm	IEC 60093
Specific surface resistance	$<10^{11}$ Ohm	$<10^9$ Ohm	IEC 60093
Comparative tracking index	CTI 600	CTI600	IEC 60112
Dielectric strength	240 kV/ cm	$>2,5$ kV/ cm	IEC 60243.1
Density	1,7 g/ cm <sup>3</sup>	1,8 g/ cm <sup>3</sup>	ISO1183
Coefficient of linear thermal expansion	$9 \times 10^{-6}$ m/mK	$12 \times 10^{-6}$ m/mK	ISO 11359-2
Constant operating temperature	- 60° ...+120° C		--
Glass transition temperature	170 °C		ISO 11357-2
Protection degree	Standard IP 65 / NEMA 4x		NEMA IEC EN 60529
Fire behaviour	Material class B2, (self- extinguishing according to small burner test)		DIN 4102-1 UL 94 V-0
Resistance to glow heat	Step BH 2 $\leq$ 10		IEC 60707-3
Bending strength	155 MPa		ISO 14125
Flexural modulus of elasticity	10 GPa		ISO 14125
Impact resistance	72 kJ/ m <sup>2</sup>		ISO 179
Thermal conductivity	0,23 W/ m · K		--
UV resistance	Yes		--
Resistance to termites and fungi	Resistant		--
Approval by Germanischer Lloyd	for unlimited use within the rules of Germanischer Lloyd (fire test according to chapter 4, section 1.A.4.3.1, volume II 1973 passed)		--

### Deviating Technical Data for Options

Additional insulation	Internal polypropylene liner (arctic PP), internal aluminium foil (arctic Alu), with PU-foam infill	
Constant operating temperature	-100°C...+120°C	
Constant operating temperature with silicone foam sealing	-60°C...+160°C	
Constant operating temperature of the polyester	-100°C...+160°C	
Protection degree	IP 66 and IP 67 upon request	NEMA IEC EN 60529
EExp Pressurization	Enclosures can be prepared for overpressurization (with test certificate) and, upon request, are available with control unit	EN 50016