

SAFETY DATA SHEET

PRODUCT: Make Ready Protection Plate
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SUPPLIER: Partwell Cutting Technology Specialists
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MATERIAL IDENTIFICATION AND INFORMATION

The material is manufactured from insulating laminate made of glass fabric bonded with epoxy resin.

Thickness tolerances according to DIN EN 60893-3-2

Temperature index of 180°C

Specifications:	IEC 893/ DIN DIN 7735 BS NF C NEMA VSM	EN 60893 EP GC 203 HGW 2372.4 EP 7 26-151-VT-EM 2
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TECHNICAL VALUES

	Test method	Test conditions	Value	Unit
Mechanical characteristics				
Flexural strength	ISO 178	23°C/50 %RH	450	MPa
Flexural strength at high temperature	ISO 178	1h / 150°C	350	MPa
Modulus of elasticity	ISO 178	23°C/50 %RH	24000	MPa
Notched impact strength	ISO 179	23°C/50 %RH	60	k/m2
Comprehensive strength	ISO 604	23°C/50 %RH	260/550	MPa
Shear strength	ISO 893	23°C/50 %RH	30	MPa
Interlaminar bonding strength	DIN 53463	23°C/50 %RH	4500	N
Bonding strength	IEC 61212	23°C/50 %RH		MPa
Electrical characteristics				
Insulation resistance	IEC 167	240h50°C+ 24h23°C water	1,00E+12	
Edgewise breakdown voltage	IEC 243	1h105°C+90°C oil	80	Kv
Flatwise electrical strength	IEC 243	1h105°C+90°C oil	20	kV/mm
Dissipation factor at 1 MHz	IEC 250	23°C+50% RH	0.019	
Relative permittivity	IEC 250	23°C+50% RH	4.9	
Comparative tracking index CTI	IEC 112	23°C+50% RH	500	V
Arc resistance	ASTM D 495	23°C+50% RH		s
Thermal characteristics				
Temperature resistance	IEC 216		180	°C
Thermal conductivity	DIN 52612	20-100°C	0.25	W/m K
Coefficient of linear expansion	VDE 0304	20-130°C	15	10E-6/K
Other characteristics				
Nom. Value for punch up to 2mm thick	DIN 53488	23°C+50% RH		
Density	ISO 1183	23°C+50% RH	1.9	g/cm3
Water absorption	ISO 62	24h23°C+24h23°C water	10	Mg
Water absorption	ISO 62	24h23°C+24h23°C water	0.04	%

OTHER INFORMATION

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