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## THERMOPAL ESA-SYSTEM

The Thermopal ESA system is a complete programme of static dissipative materials for the elimination of the build-up static charge.

<b>Thermopal-Product</b>	<b>ESA-Brilliant S/P</b>
<b>Type of Material</b>	High pressure laminate
<b>Quality assurance</b>	To EN 438
<b>Nature of product</b>	Melamine phenolic resin S: standard quality P: postforming quality
<b>Volume resistivity <math>R_v</math></b>	$7,5 \times 10^5 - 1 \times 10^9 \Omega$ To BS EN 100 015 part 1 / 2 dry Contact 100 V DC Recommended atmospheric conditions before measurement 96h: 23°C, 50% RM and 96 h: 30°C, 20% RM
<b>Board Thickness</b>	0.6mm P 0.8 mm S
<b>Edge finish</b>	Clean cut finish
<b>Choice of patterns</b>	IW, U 16, U 48, U 63, U 133, U 154, others on request
<b>Surface textures</b>	Butten 43, Perl 47, Soft 49, reverse side sanded, others on request
<b>Resistance to heat</b>	Resistant to molten solder, oilpot test 20 minutes at 180°C and cigarette test, meets the requirements of EN438 or DIN 53799
<b>Abrasion resistance</b>	All designs level 3 resp. Class H to EN 438 or DIN 68765
<b>Impact resistance</b>	Brilliant S: level 3 Brilliant P: level 2 To EN438
<b>Scratch resistance</b>	Structures Butten/Pearl/Soft Level 3 to DIN EN 438
<b>Chemical resistance</b>	Resistant to organic solvents, weak acids, alkali, petrol and oil. Meets the Requirements of EN 438
<b>Light stability</b>	>level 6 to EN 438