

Pel-Powder®

Product Name	PCE-500
Product Category	Powder Coating for Electronic Components
Use	Busbars
Function	Heat Cycle Resistant

As supplied

Item	Condition	Unit	Typical
Appearance	Standard Color	—	Red
Gel Time	JIS C 2161 150℃	sec	85
Inclined Plate Flow	150 °C-60° angle, 2 g 20φ	mm	10.5
Particle Size Distribution	JIS C 2161 180 μm o n	wt %	0.7
	JIS C 2161 180 μm ~ 150μm	wt %	7
	JIS C 2161 150 μm ~ 106μm	wt %	22.9
	JIS C 2161 106 μm ~ 75μm	wt %	20.7
	JIS C 2161 75μm p a s s	wt %	48.7
Melting Point	D S C	℃	50

Standard Curing Condition	180℃ - minutes
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As cured

Item	Condition	Unit	Typical
Specific Gravity	JIS K 6911	—	1.62
Glass Transition Temperature	T M A	℃	100
Coefficient of Thermal Expansion	25℃- TG	℃	5×10^{-5}
Flexural Strength	JIS K 6911	MPa	117
Flexural Modulus	JIS K 6911	MPa	7.3×10^3
Volume Resistivity	JIS C 2161	$\Omega \cdot \text{cm}$	4.9×10^{16}
Dielectric Constant	JIS C 2161 1 k H z - 1MHz	-	4.8 - 4.5
Dielectric Loss Tangent	JIS C 2161 1 k H z - 1MHz	%	0.008-0.02
Breakdown Voltage	JIS C 2161	kV/mm	>20
Water Absorption	JIS K 6911 boil for 2hours	w t %	0.52
Flame Resistance	UL-94 V-0 0.5mm thickness	-	—



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