

Pel-Powder®

Product Name	PCE-650
Product Category	Powder for Motors
Use	Motor Insulation (Field Coil)
Function	Flexible, Heat Cycle Resistant

As supplied

Item	Condition	Unit	Typical
Appearance	Standard Color	—	BROWN
Horizontal Flow	150℃ 0.5g-10mmφ	%	14
Gel Time	JIS C 2161 150℃	sec	179
Average Particle Size	Layser method	μm	67
Melting Point	Kofura hot bench	℃	61
Particle Size Distribution	JIS C 2161 300 μm pass	%	100
	JIS C 2161 150μm on	%	<10
	JIS C 2161 45μm pass	%	>30

Standard Curing Condition	190℃-15分
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As cured

Item	Condition	Unit	Typical
Specific Gravity	JIS K 6911	—	1.4
Hardness	Shore D	—	52
Volume Resistivity	JIS C 2161	Ω·c m	5.6×10^{12}
Volume Resistivity after boil for 2hrs	JIS C 2161 (after boil for 2hrs)	Ω·c m	3.7×10^{11}
Dielectric Loss Tangent	JIS C 2161 1kHz	%	2.77
	JIS C 2161 1MHz	%	4.23
Dielectric Constant	JIS C 2161 1kHz	—	6.17
	JIS C 2161 1MHz	—	5.5
Glass Transition Temperature	T M A	℃	33
Coefficient of Thermal Expansion	below T g	—	6×10^{-5}
	above T g	—	16×10^{-5}
Tensile Strength	JIS K 6911	MPa	10.7
Youngs' Modulus	JIS K 6911	MPa	167

The above values are typical and not specification.



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