

## Pel-Powder®

<b>Product Name</b>	<b>PCE-30</b>
<b>Product Category</b>	Powder Coating for Electronic Components
<b>Use</b>	Film Capacitors
<b>Function</b>	Low Temperature Adhesiveness, Low Temperature Curing, Humidity Resistant

### As supplied

Item	Condition	Unit	Typical
<b>Appearance</b>	Standard Color	—	BROWN
<b>Gel Time</b>	JIS C 2161 150°C	sec	60
<b>Horizontal Flow</b>	90°C - 0.5 g - 10φ	%	8
<b>Particle Size Distribution</b>	JIS C 2161 150 μm or more	wt %	0
	JIS C 2161 150 μm ~ 75μm	wt %	30
	JIS C 2161 75 μm ~ 45μm	wt %	30
	JIS C 2161 38 μm pass	wt %	40
<b>Melting Point</b>	DSC	°C	43

<b>Standard Curing Condition</b>	100°C x 1.5 hours
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### As cured

Item	Condition	Unit	Typical
<b>Hardness</b>	JIS K 5400 Pencil Hardness	H	6
<b>Specific Gravity</b>	JIS K 6911	—	1.7
<b>Heat Distortion Temperature</b>	ASTM D-648	°C	99
<b>Glass Transition Temperature</b>	TMA	°C	97
<b>Coefficient of Thermal Expansion</b>	below T <sub>g</sub>	/°C	4.5×10 <sup>-5</sup>
<b>Flexural Strength</b>	JIS K 6911	MPa	90
<b>Flexural Modulus</b>	JIS K 6911	MPa	7.0×10 <sup>3</sup>
<b>Volume Resistivity</b>	JIS C 2161	Ω·cm	1.3×10 <sup>15</sup>
<b>Dielectric Constant</b>	JIS C 2161 1 kHz - 1MHz	-	4.6 - 4.4
<b>Dielectric Loss Tangent</b>	JIS C 2161 1 kHz - 1MHz	%	1.0 - 2.0
<b>Breakdown Voltage</b>	JIS C 2161	kV/mm	25
<b>Water Absorption</b>	JIS K 6911	wt %	0.22
<b>Flame Resistance</b>	UL-94 V-0 0.5mm thickness	-	recognized

The above values are typical and not specification.



**PELNOX, LTD.**

Tokyo Sales Office 3-7-2, Nihonbashi-Honcho, Chuo-ku, Tokyo, 103-0023, Japan  
 TEL : 81-3-5645-3782 FAX : 81-3-5645-3784

R&D Center 8-7, Bodai, Hadano-shi, Kanagawa, 259-1302, Japan  
 TEL : 81-463-86-8001 FAX : 81-463-86-8022