

Coatings data chart

	Parylene	Nylon	Electrostatic Epoxy	Epoxy
Layer thickness (mm)	~ 0.013	0.2 - 0.5	0.1 - 0.3	0.1 - 0.3
Max. working T (°C)	150 °C	160 °C	200 °C	200 °C
UL number	UL94-V-0 E 194397	UL94-V-0 E 328173 ⁽¹⁾	UL 94-V-0 E 228348	UL 94-V-0 E 228348 ⁽²⁾
Isolation voltage V_{DC}	> 1000 V (~12µm)* > 2000 V (~25µm)* * layer thickness	1000V 4 ≤ OD < 12 1500V 12 ≤ OD < 20 2000V OD ≥ 20	1000V 10 < OD < 12 1500V 12 ≤ OD < 20 2000V OD ≥ 20	1000V 4 ≤ OD < 12 1500V 12 ≤ OD < 20 2000V OD ≥ 20
Roughness (comparative)	Low	High	Medium	Medium
Advantages	<ul style="list-style-type: none"> Stress free Thin layer Clean Smooth, uniform 	<ul style="list-style-type: none"> High temperature High isolation voltage 	<ul style="list-style-type: none"> Clean Good adherence High working temperature 	<ul style="list-style-type: none"> Low stress Clean Good adherence High working temperature Good for large toroids
Disadvantages	<ul style="list-style-type: none"> Only small toroids (OD < 10mm) 	<ul style="list-style-type: none"> High stresses Thick layer 	<ul style="list-style-type: none"> Not 3E7, 3E8 Not for large toroids 	<ul style="list-style-type: none"> Higher cost
Colour	Transparent	Pure white	Ivory white	Pure white
Range of application	Up to OD < 10 mm	10 ≤ OD < 36 ⁽³⁾	10 < OD ≤ 63	<ul style="list-style-type: none"> Iron powder OD > 63 or ≤ 10 Toroids in 3E7, 3E8
Coating generic type	Paraxylene Polymer	Polyamide 11	Electrostatic Epoxy-Polyamide	Epoxy-Polyamide
Melting Point	175 °C (few seconds)	184-186 °C	-----	-----

(1) E 45228 - former UL number published in Handbook; E 328173 - actual UL number.

(2) E 235873 - former UL number published in Handbook; E 228348 - actual UL number.

(3) Not for high permeability (3E5, 3E55, 3E6, 3E7, 3E8)