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 (~12 μm)* > 2000 V (~25 μm)* * 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	• Stress free • Thin layer • Clean • Smooth, uniform	• High temperature • High isolation voltage	• Clean • Good adherence • High working temperature	• Low stress • Clean • Good adherence • High working temperature • Good for large toroids
Disadvantages	• Only small toroids (OD < 10mm)	• High stresses • Thick layer	• Not 3E7, 3E8 • Not for large toroids	• 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 63 < OD ≤ 87	• Iron powder • OD > 87 or < 10 or OD=63 • 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)

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