Product Datasheet

Resicoat® EL
Coating for Busbars by Fluidized Bed Application
Code: HFD07R

Product Description

Resicoat® EL HFD07R is a one part, 100 % solids, epoxy powder coating for insulation of wire and busbars. Designed for fluidized bed application it has good resistance against heat, chemicals and moisture. The coating has a high level of flexibility and consistent edge coverage.

		Typical value	Method
Powder Properties	**Binder system**	Epoxy	
	Density	1.50 – 1.70 g/cm³	ISO 8130-2
	Gel time at 200° C	18 – 30 sec.	modified ISO 8130-6
	Storage stability	4 months from date of manufacture at ≤ 23° C	
Application Data	**Preheating temperature**	200° C object temperature	
	Post cure conditions	15 min., 200° C object temp.	
	Glass transition temperature Tg2	100 – 110° C	Inflection point (DSC)
	Particle size distribution	< 32 µm = 10 – 25 % < 300 µm = 99 – 100 %	Malvern ISO 8130-1
Material Properties	**Color**	orange, ca. RAL 2003	
	Recommended film thickness	250 – 450 µm	
	Flow	smooth	
	Gloss at 60° angle	70 – 90 units	ISO 2813
	Cross cut	Gt 0	ISO 2409
	Impact resistance	> 10 Joule	DIN 3476-1
	Elongation	2 – 5 %	DIN 3476-1
	Hardness	100	ISO 2815
	Temperature Index	130° C (Class B)	IEC 60216-1
	Thermal Conductivity	0.3 – 0.4 W/(m·K)	ISO 22007
Typical Electrical Properties	**Specific surface resistivity**	> 10^{13} Ω	IEC 60093
	Dielectric strength	40 kV/mm	IEC 60243-1
	Comparative Tracking Index	CTI 500-0.3	IEC 60112
	UL 94 (Flame Retardancy)	V-0	Resicoat® EL HFD07R meets UL 94 V-0 (to be approved on customer request)

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