

Product Data Sheet

AkzoNobel Powder Coatings

Resicoat® EL

Epoxy powder Coating for Electrical Components

HGD47QF (Formerly AG114QF / 17-4005)

ECA-1283 Red 3332

Product Description

Resicoat® EL HGD47QF ECA-1283 Red 3332 is an electrical grade functional epoxy powder coating designed for use in a wide variety of electrical, mechanical, and chemical applications. Made of hard, high edge coverage materials, HGD47QF is ideal for the integral insulation of electric motor cores, low and high voltage bus bars, hermetic connectors, and watt-hour meter coils.

Powder Properties	Chemical type	Ероху			
	Appearance	Smooth			
	Gloss level (Gardner 60°)	65 ± 5			
	Specific gravity	1.25 ± 0.05 g/cm ³	(Calculated)		
	Coverage @ 1.0 mil	153 ft²/lb/mil (Cal	culated)		
	Storage	Maximum 80°F			
	Shelf life	12 months			
Application Data	Application Method	Fluid Bed			
	Recommended Film thickness	10+ mils (250µ minimum)			
	Curing schedule (at object temperature)	Object temp at 400°F Postheat: 10 minutes at 450°F			
Mechanical Tests	Flexibility	ASTM D522	⅓" Mandrel		
	Adhesion	ASTM D3359	100%		
	Impact Resistance, Direct	ASTM 2794	40 in/lbs Minimum		
	Hardness	ASTM 3363	H Minimum		
Typical Performance Charachteristics	Hardness, Shore D	ASTM D2240	87		
	Tensile Strength	ASTM D638	9500 psi		
	Edge Coverage	ASTM 2967	>50%; Method "B" @ 12-16 mils		
	Coefficient of Thermal Expansion	ASTM D696	5.2 x 10 ⁻⁵ in/in/°C		
	Dielectric Constant		4.0		
	Dielectric Strength	ASTM D149	1200 volts/mil		
	Thermal Shock Resistance		Passes 10 cycles (+500°F to -67°F)		
Pre-treatment		prior to the applica	om grease. For maximum protection, it is tion of Resicoat ® EL . Iron phosphate n resistance.		
Application	is recommended that for consiste	ent application and	automatic electronic spray equipment. It appearance product be fluidized during suitable equipment and recycled through		





Approvals

This product is UL OCTD2.E34521 recognized to UL Designation ECA-1283. For UL OCTD2.E34521, following is the applicable data.

Min Film Thickness (mm)	Metal Thickness (mm)	Flame Class UL-94	HWI	HAI	RTI Elec	RTI Imp	RTI Str	СТІ
0.13 - 0.14	2.1	V-0	-	-	130	130	130	2
0.45 - 2.3	2.1	-	-	0	130	130	130	-
0.57 - 0.63	2.1	-	0	-	130	130	130	-

Safety Precautions

Please consult the Safety Datasheet (SDS).

Disclaimer

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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Product History

Through acquisitions of companies over the years, this product has been renamed several times throughout the years.

Corvel 17-4005 – was introduced by Polymer Corp in the early 1980's.

AG114QF Interpon 100 – Product was renamed when AkzoNobel acquired Rohm & Haas in 2010.

HGD47QF Resicoat EL - Product is re-coded to align with business' best practice in Oct 2020.

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