

Razeen® SR 5184

Solid, medium molecular weight Epoxy Resin



General Razeen® SR 5184 is an unmodified solid epoxy resin based on Bisphenol A.

Application

- **Solvent-Containing Coatings:**
Razeen® SR 5184 exhibits a high and uniform rate of esterification, and when combined with various fatty acids, is highly suitable for the production of epoxy esters. Such esters can be formulated into vehicles for a wide range of coating applications. These coatings exhibit excellent adhesion, flexibility, chemical resistance, hardness and abrasion resistance, making them particularly attractive in metal decorating and maintenance enamels.
- **Powder Coatings:**
Razeen® SR 5184 can also be used to formulate powder coatings when cured with accelerated dicyandiamides, dicyandiamide derivatives (like Hardener HT 2844), or various polyester resins with carboxyl end-groups.

Properties

Solvent-Containing Coatings (in combination with fatty acids):

- Very rapid esterification
- Low color
- Low viscosity
- Very easily filtered

Powder Coatings (depending on curing agent used):

- High gloss
- Good flow
- Very good mechanical properties
- Very good edge coverage
- Very good storage stability

Specific key data	Property	Value	Test method
	Appearance	Clear, no contamination	JCTM 002
	Color, Gardner*	1 max	ASTM D-1544
	Epoxy value	1.12 - 1.20 eq/Kg	ASTM D-1652
	Weight per epoxide	833 - 895 g/Eq	ASTM D-1652
	Viscosity @ 25 °C (77 °F)*	470 - 500 mPa.s	ISO 12058-1

* 40% in butyl carbitol

Specific key data are individually checked throughout, guaranteed and included in certificate of Analysis.

Typical Key Data	Softening point (Mettler)	99 – 105 °C	ASTM D-3461
	Density at 25 °C	~ 1.19 g/cm ³	ISO 8130
	Flash point	≥ 200 °C	ISO 2719
	Hydroxyl content	~ 2.9 eq/kg	ISO 4629

Typical key data are spot-checked; the values are typical for the product and are indicated for information only. The values are not guaranteed or included in the COA.

As-supplied form	Flakes
Odor	None
Self life (at storage temperature between 2 - 40°C) (See expiry date on original container)	6 Years
Hazardous decomposition products (when disposed of in fire)	Carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapors
Disposal	Regular procedures approved by local authorities

Package & Storage Razeen® SR 5184 is supplied in 25 Kg. bags. This product should be stored in a dry place; preferably in the sealed original bags at temperatures between 2°C and 40°C. The product should not be stored / exposed to direct sunlight.

Handling/Safety Precautions Forced ventilation and dust masks or respirators should be used in order to ensure that operatives do not breath in dust generated by resin, hardener or formulated powder coatings.

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets.

Note Razeen® is a registered trademark of JANA or an affiliate thereof.

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