

Advanced Materials

Araldite® GY 250#

Specialty Components

DATA SHEET

Medium-viscosity, unmodified epoxy resin based on bisphenol-A

Applications	Araldite GY 250 is suitable for the formulation of solvent-free coatings, flooring screeds, trowelling compounds, etc. when cured with polyamines, polyamidoamines or their adducts.		
Properties	General purpose, liquid Araldite epoxy resin. Excellent mechanical properties and resistance to chemicals, which can be modified within wide limits by using various hardeners and fillers.		
Key data	Specified key data		
	Aspect (visual)	clear liquid	
	Colour (Gardner, ISO 4630)	≤ 2	
	Epoxy index (ISO 3001)	5.30 - 5.45	[eq/kg]
	Epoxy equivalent (ISO 3001)	183 - 189	[g/eq]
	Viscosity at 25 °C (Falling-ball, ISO 12058-1)	10000 - 12000	[mPa s]
	Specified key data are individually checked throughout and guaranteed.		
	Typical key data		
	Medium epoxy equivalent (ISO 3001)	187	[g/eq]
	Vapour pressure at 20 °C (balance)	≤ 0.01	[Pa]
	Density at 25 °C (ISO 1675)	1.17	[g/cm ³]
	Flash point (Pensky Martens, ISO 2719)	≥ 200	[°C]
	As-supplied form	liquid	
	Odour	slight	
	Shelf life (at storage temperature between 2 - 40 °C) (see several years expiry date on original container)		
	Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide and other toxic gases and vapours	
	Disposal	regular procedures approved by local authorities	
	Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.		

In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

Viscosity										
Viscosity (ISO 12058-1) of Araldite GY 250 as a function of temperature										
Temperature		[°C]		15	20	25	30	35	40	
Viscosity		[mPa s]		90000	30000	11500	5300	3000	1800	

Mix ratios											
Components				Parts by weight							
Araldite GY 250	100	100	100	100	100	100	100	100	100	100	100
Aradur 830	45	-	-	-	-	-	-	-	-	-	-
Aradur 850	15	60	-	-	-	-	-	-	-	-	-
Aradur 837	-	-	35	-	-	-	-	-	-	-	-
Aradur 847	-	-	-	40	-	-	-	-	-	-	-
Aradur 848	-	-	-	-	70	-	-	-	-	-	-
Aradur 943	-	-	-	-	-	20	-	-	-	-	-
Aradur 2963	-	-	-	-	-	-	45	-	-	-	-
Aradur 2965	-	-	-	-	-	-	-	50	-	-	-
Aradur 2969	-	-	-	-	-	-	-	-	60	-	-
Aradur 3203	-	-	-	-	-	-	-	-	-	-	27
Viscosity	[mPa s]	9000	-	10000	-	4100	-	1000	-	3200	-
at 25 °C (ISO 12058-1)		-	13000	-	2400	-	10300	-	1300	-	5000
Gel time	[min]	120	30	25	40	180	15	45	31	150	15
(Tecam, 100 ml, 20 °C, 65% RH)											

Storage Araldite GY 250 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.

Araldite GY 250 may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating it to 70 - 80 °C and stirring it thoroughly.

Handling precautions 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 and the brochure "Hygienic precautions for handling plastics products".

Note Araldite® is a registered trademark of Huntsman LLC or an affiliate thereof.

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