

## **Advanced Materials**

## ARALDITE<sup>®</sup> GY 40100

## **Specialty Components**

ΔΤΔ	SHEET
DATA	SHEET

Masterbatch of Bisphenol-A based epoxy resin with 2% MIRALON <sup>®</sup> pulp			
Applications	ARALDITE <sup>®</sup> GY 40100 is a specialty component desig is suitable for the formulation of solvent-free coa compounds, etc. when cured with polyamines, polyam	ned to create conduc atings, flooring scre idoamines or their ad	tive material. It eds, troweling ducts.
Benefits	<ul> <li>Ultralow solid loading levels to provide electric</li> <li>Easy to mix solution with no requirement for he</li> <li>Preserves and enhances mechanical propertied density</li> <li>Enables production of conductive materials with</li> <li>Can be transported and stored with no special</li> </ul>	al conductivity even a eating prior to mixing es and conductivity ma th bright colors handling requiremen	aintaining a low
Properties	General purpose, liquid ARALDITE <sup>®</sup> 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 Appearance (visual) Viscosity 25°C (ISO 3219:1993)	Black paste 35000 - 45000	[Pa.s]
	Typical key data		
	Medium epoxy equivalent (ISO 3001) Complex Viscosity at 25 °C and 0.1 s <sup>-1</sup>	189 630	[g/eq] [Pa.s]
	(shear thinning) Vapour pressure at 20 °C (balance)	≤ 0.01	[Pa]
	Density at 25 °C (ISO 1675) Flash point (Pensky Martens, ISO 2719)	1.17 ≥ 200	[g/cm³] [°C]
	As-supplied form Odour	Viscous liquid slight	
	Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	several years	
	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.		

Typical values of complex viscosity at 25°C for different strain rate in Pa.s. Measurements performed on a DHR-3 rheometer with a plate-plate geometry of 25mm diameter, 0.1 % strain, Gap of 1mm.



## Electrical<br/>resistivity after<br/>dilutionTypical level of electrical resistivity at different dilution levels of MIRALON® pulp in<br/>formulated systems ARALDITE® GY250/ARALDITE® GY 40100- ARADUR® 3403<br/>Resistivity measurement based on ISO 1853 and ISO 3915 depending on level of<br/>conductivity



Storage	ARALDITE <sup>®</sup> GY 40100 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 <sup>®</sup> GY 40100 may crystallize if stored for prolonged 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".

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