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Ref.Nr. AdMat Resins 08.07_EN

Advanced Materials

Resins



Basic Liquid Resins • Araldite®

Product Range	Characteristics	Viscosity 25°C [mPa s]	Epoxy index [Eq/kg]	Epoxy equiv. [g/Eq]	Colour ¹⁾ (Gardner)	Applications
Araldite® GY 240	BPA	7 000-9 000	5.45-5.56	180-183	≤ 2	CE, IM, MC
Araldite® GY 250	BPA	10 000-12 000	5.30-5.45	183-189	≤ 2 ²⁾	CE, IM, MC
Araldite® GY 260	BPA	12 000-16 000	5.20-5.49	182-192	≤ 3	CE, IM, MC
Araldite® GY 261	BPA, high chlorine content	12 500-17 500	4.90-5.20	192-204	≤ 3	CE, IM, MC
Araldite® GY 266	BPA	9 500-12 000	5.10-5.30	189-196	≤ 2	CE, IM
Araldite® GY 280	BPA, semi-solid	450-700 ³⁾	3.57-4.45	225-280	≤ 3 ³⁾	CE, IM, MC
Araldite® GY 2600	BPA	12 000-14 000	5.29-5.43	184-189	≤ 1	CE, IM, MC, A

¹⁾ 40% in butylcarbitol • ²⁾ resin with colour well below Gardner 1 (APHA<50) is also available • ³⁾ 70% in butylcarbitol

Basic Solid Resins • Araldite®

Product Range	Characteristics	Viscosity ¹⁾ 25°C [mPa s]	Epoxy index [Eq/kg]	Epoxy equiv. [g/Eq]	Colour ¹⁾ (Gardner)	Applications
Araldite® GT 6097	BPA type 7	1 800-2 600	0.53-0.59	1 695-1 885	≤ 1	IM, CC, PC
Araldite® GT 6099	BPA type 9	5 000-10 000	0.34-0.42	2 380-2 941	≤ 2	IM, CC
Araldite® GT 6609	BPA type 9, low viscous	2 700-4 800	0.34-0.42	2 380-2 941	≤ 3	IM, CC
Araldite® GT 6610	BPA type 10, low viscous	5 000-8 000	0.26-0.34	2 940-3 845	≤ 2	IM, CC
Araldite® GT 6810	BPA type 10, modified	4 000-7 000	0.0-0.10	>10 000	≤ 3	IM, CC
Araldite® GT 7077	BPA type 7	1 300-1 900	0.61-0.67	1 490-1 640	≤ 1	IM, CC, PC

¹⁾ 40% in butylcarbitol

Product Range	Characteristics	Viscosity ¹⁾ 25°C [mPa s]	Epoxy index [Eq/kg]	Epoxy equiv. [g/Eq]	Mettler soft. point [°C]	Colour ¹⁾ (Gardner)	Applications
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Low molecular weight

Araldite® GT 1804	BPA type 4	420-560	1.09-1.19	840-915	96-102	≤ 3	CE, IM, MC, CC, A
Araldite® GT 6063	BPA type 2.5	350-500	1.37-1.56	640-730	90-97	≤ 1	CE, IM, MC, CC, A, PC
Araldite® GT 6064	BPA type 3.5	400-600	1.28-1.37	730-780	96-101	≤ 1	CE, IM, MC, CC, A, PC
Araldite® GT 6071	BPA type 1	160-190	2.15-2.22	450-465	70-75	≤ 1	CE, IM, MC, CC, A, PC
Araldite® GT 6084-2	BPA type 4	550-700	1.12-1.20	833-895	99-105	≤ 2	CE, IM, MC, CC, A, PC
Araldite® GT 6703	BPA type 3	230-320	1.35-1.45	690-740	~ 87	≤ 2	CE, IM, MC, CC, A, PC
Araldite® GT 7004	BPA type 3.5	500-600	1.33-1.40	714-752	95-101	≤ 1	CE, IM, MC, CC, A, PC
Araldite® GT 7071	BPA type 1	200-250	1.90-2.00	500-525	77-82	≤ 1	CE, IM, MC, CC, A
Araldite® GT 7072	BPA type 2	280-340	1.68-1.75	570-595	82-90	≤ 1	PC
Araldite® GT 7444	BPA type 3.5	380-520	1.32-1.42	705-760	~ 95	≤ 2	PC

Multifunctional resins and ECNs¹⁾

Araldite® ECN 9699	Multifunctional epoxy novolac ²⁾	7 000-10 000 ³⁾	4.45-4.85	205-225	80-100	≤ 6	PC
Araldite® GT 7220	Modified epoxy novolac	460-670	1.83-1.93	520-545	~ 95	≤ 2	PC
Araldite® GT 7255	Modified epoxy novolac	1 000-1 600	1.17-1.29	775-855	106-113	≤ 2	PC

¹⁾ 40% in butylcarbitol • ²⁾ functionality ~ 5.5 • ³⁾ 130 °C, PF-A0445

Formulated Resins • Araldite®

Product range	Characteristics	Viscosity ¹⁾ 25°C [mPa s]	Epoxy index [Eq/kg]	Epoxy equiv. [g/Eq]	Mettler soft. point [°C]	Flow agent [%]	Colour ¹⁾ (Gardner)	Applications
Araldite® GT 1999	BPA based resin	400-550	1.08-1.20	835-925	90-95	2.5	≤ 1	PC
Araldite® GT 2874-1	BPA based resin	350-550	1.15-1.35	740-870	85-95	10	≤ 2	PC
Araldite® GT 6143	BPA based resin	250-375	1.51-1.61	620-660	90-96	2.5	≤ 3	PC
Araldite® GT 6450	BPA based resin	350-500	1.37-1.56	640-730	91-94	2	≤ 2	PC
Araldite® GT 6750	BPA based resin	230-320	1.31-1.42	705-765	~ 87	2.5	≤ 2	PC
Araldite® GT 7203	BPA based resin	300-400	1.55-1.65	605-645	82-90	2.5	≤ 1	PC
Araldite® GT 8010	BPA based resin	525-675	1.30-1.40	715-770	95-105	2.5	≤ 2	PC

¹⁾ 40% in butylcarbitol

Solutions • Araldite®

Product Range	Characteristics	Viscosity 25°C [mPa s]	Epoxy index [Eq/kg]	Flash point [°C]	Solids content [%]	Colour (Gardner)	Applications
Araldite® GZ 7488 N 50	BPA in solution ¹⁾	2 000-5 000	≤ 0.08	> 0	49-51	≤ 4	IM, CC
Araldite® GZ 7488 V 40	BPA in solution ²⁾	3 000-6 000	≤ 0.06	36	39-41	≤ 4	IM, CC

¹⁾ 50% in methylethylketone/cyclohexanone/1-methoxy-2-propylacetate (81:11:8) • ²⁾ 40% in 1-methoxy-2-propylacetate/cyclohexanone (93:7)

Product Range	Characteristics	Viscosity 25°C [mPa s]	Epoxy index [Eq/kg]	Epoxy equiv. [g/Eq]	Solids content [%]	Colour (Gardner)	Applications
Araldite® GZ 280 X 80	Semi-solid BPA in xylene	600-850	3.10-3.40	290-323	79-81	≤ 3	IM, MC
Araldite® GZ 290 X 90	Modified semi-solid BPA in xylene	1 300-3 700	3.30-3.70	270-305	89-91	≤ 6	IM, MC
Araldite® GZ 601 X 75	Solid BPA in xylene	5 500-7 500	1.60-1.80	555-625	74-76	≤ 2	IM, MC
Araldite® GZ 7071 X 75	Solid BPA in xylene	8 000-13 000	1.50-1.67	600-670	74-76	≤ 2	IM, MC
Araldite® PZ 820-1	Solid BPA in methoxy-propanol/butanol ¹⁾	35 000-65 000	1.52-1.76	568-658	78.5-81.5	≤ 5	IM, MC
Araldite® PZ 985 E	Solid BPA in solvent ²⁾	2 400-2 800	-	-	58-62	≤ 5	IM, CC

¹⁾ available as system with Aradur® 820 • ²⁾ available as system with Aradur® 985 E-1

Nomenclature

Huntsman Advanced Materials' registered trademark for commercial resins is "Araldite®".

The two-letter code following the registered trademark has the following meaning:

First letter indicates the intended use of the product. Ex.: Araldite® **PY** 302-2 CH

B	special resin for civil engineering applications	} (exceptions indicating only the type of resins chemistry)
D	modification product (reactive diluent, flexibilizer, matting agent, etc.)	
G	standard resin	
P	special resin	
EPN	Epoxy Phenol Novolac	
ECN	Epoxy Cresol Novolac	

Second letter indicates the supply form. Ex.: Araldite® **PY** 302-2 CH

T	solid product
Y	liquid product
Z	resin in solution, emulsion or dispersion form

The number following this letter code is the characteristic for the product name.

Ex.: Araldite® **PY 302-2** CH. In case of minor product changes, we indicate the actual version by a figure separated from the product number by a dash.

Ex.: Araldite® **PY 302-2** CH.

In case of resin solutions a one up to three-letter code behind the characteristic product number indicates a solvent (or solvent mixture). Ex.: EPN 1180 **X 80** CH.

This solvent code is followed by a number indicating the solid content of the product (in the example above it's 80% resin dissolved in xylene).

The last two letters indicate the country of origin, in these two cases CH for Switzerland.

Ex.: EPN 1180 X 80 **CH**. These appendices are in use on packaging, transport and invoicing documents but not within this selector guide.

Applications legend

A: Automotive / CC: Can & Coil / CE: Civil Engineering / IM: Industrial Maintenance / PC: Powder Coatings / MC: Marine Coatings

Safety and handling precautions

The Material Safety Data Sheet (MSDS) should be consulted prior to handling any of here listed products.

Notes

BPA: Bisphenol A epoxy resin

BPF: Bisphenol F epoxy resin.