

# Araldite DVD bonding adhesives from Huntsman Advanced Materials

## Core Range

The Araldite Core Range of DVD Adhesives provides superior bonding solutions for all DVD formants including DVD-5, DVD-10 and DVD-9 suitable for both Gold and Silicon.

## Key features of Araldite's core range of DVD adhesives :-

- Over 4 years usage by many of the leading international replicators.
- Industry leading adhesion to ensure minimal moisture ingress into the disc.
- Developed in collaboration with many of the leading DVD line integrators eg. M2, Singulus and Steag Hamatech.

## Araldite DVD adhesives - Physical properties

	XD 4719	XD 4517-1	XD 4718
<b>Viscosity</b>	c. 190 mPas	c. 300 mPas	c. 550 mPas
<b>Shelf life</b>	1 year	1 year	1 year
<b>DVD equipment suitability</b>	Alpha Sweden Convac	M2 Engineering Krauss Maffei	Steag Hamatech Panasonic Singulus
<b>Substrate suitability</b>			
Polycarbonate	●	●	●
Aluminium	●	●	●
Gold	●	●	●
Silicon	●	●	●
<b>Climate test</b>	Passes 80°C/95%RH/96H	Passes 80°C/95%RH/96H	Passes 80°C/95%RH/96H

## Araldite DVD adhesives tested and approved for use by :-



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Vantico Ltd

Duxford

Cambridge CB2 4QA

U.K.

Tel: +44 1223 493 000

Fax: +44 1223 493 002

www.araldite.com

# Climate Data Core Range

**XD4719** (DVD9 Silicon: Aluminium)  
**80°C / 95%RH / 96Hours**

System Jitter (%)	Before Climate Ageing	After Climate Ageing	Delta
Inner radii	5.1	6.3	1.2
Middle radii	6.1	5.7	-0.4
Outer radii	6.6	6.3	-0.3

PI Errors	Before Climate Ageing	After Climate Ageing	Delta
Minimum	0	0	0
Maximum	22	28	6
Average	4	6	4

**XD4517-1** (DVD9 Gold : Aluminium)  
**80°C / 95%RH / 96Hours**

System Jitter (%)	Before Climate Ageing	After Climate Ageing	Delta
Inner radii	7.3	7.5	0.2
Middle radii	7.0	7.5	0.5
Outer radii	7.0	7.1	0.1

PI Errors	Before Climate Ageing	After Climate Ageing	Delta
Minimum	0	0	0
Maximum	20	25	5
Average	4.3	5.8	1.5

**XD4718** (DVD9 Gold : Aluminium)  
**70°C / 50%RH / 96Hours**

System Jitter (%)	Before Climate Ageing	After Climate Ageing	Delta
Average	7.5	7.9	0.4
Minimum	7.0	7.5	0.5
Maximum	8.4	8.7	0.3

PI Fails	Before Climate Ageing	After Climate Ageing	Delta
Maximum	4.0	4.0	0

Low Viscosity  
 Medium Viscosity  
 High Viscosity