

Huntsman Advanced Materials Americas, Inc.  
10003 Woodloch Forest Drive  
The Woodlands, Texas 77380 USA

Tel.: 281.719.6000  
Fax: 281.719.6416

Customer Service Hotline: 888.564.9318  
Customer Service Faxline: 281.719.4047  
Technical Inquiries: 800.624.6525

Website: [www.huntsman.com/advanced\\_materials](http://www.huntsman.com/advanced_materials)  
E-mail: [electrical\\_insulation\\_materials@huntsman.com](mailto:electrical_insulation_materials@huntsman.com)



Enriching lives through innovation

## Product Data

# ARALDITE<sup>®</sup> CY 6005 CS Resin/ ARADUR<sup>®</sup> HY 956-2 Hardener

## Medium Viscosity Epoxy Resin System

**General** ARALDITE CY 6005 CS Resin/ARADUR HY 956-2 Hardener epoxy system is a light colored, medium-viscosity, general-purpose material. ARADUR HY 956-2 hardener is a low viscosity, very reactive aliphatic polyamine adduct. The mixed epoxy system is easy to handle and, after an elevated temperature cure, exhibits a combination of high mechanical and electrical strength and good chemical resistance.

**Applications** Laminating  
Casting  
Tooling

**Advantages** Low viscosity  
Light color  
Easy handling  
Good mechanical and electrical properties  
Good chemical resistance  
Versatile combination of performance capabilities  
Accommodates high filler loading.

<b>Typical Properties*</b>	<b>CY 6005 CS Resin</b>	<b>HY 956-2 Hardener</b>
Appearance	Clear, no contamination	Clear, no contamination
Color, Gardner	2	4
Epoxy Value, eq./100g	0.51-0.55	--
Weight per epoxide	182-196	--
H* Active Equivalent, g/eq.	--	47
Amine Value, mg KOH/g	--	1,020-1,080
Viscosity, @ 25°C (77°F), cP	7,500-9,500	290-500
Density @ 25°C (77°F), lb./gal.	9.6-9.8	8.5
Flash Point, Closed Cup, °C (°F)	199 (390)	>93 (>200)

\* Typical properties are based on Huntsman's test methods. Copies are available upon request.

## Formulations

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<b>ADHESIVES</b>	<b>Parts by weight</b>
ARALDITE 6005 CS	100
Hardener HY 956-2	25
Cab-O-Sil	3

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<b>Cure</b>	30-60 min. gel @ 25°C (77°F) + 2 hr. @ 100°C (212°F)
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<b>Lap Shear Strength,</b> on Al/Al, psi	<b>Test Values</b>
at 23°C (73°F)	3,200
at 177°C (350°F)	315

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<b>CASTING</b>	<b>Parts by weight</b>
ARALDITE 6005 CS	100
Hardener HY 956-2	26

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<b>Cure</b>	30-60 min. gel @ 25°C (77°F) + 2 hr. @ 100°C (212°F)
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<b>Typical Properties</b>	<b>Test Values</b>
Deflection temperature, °C (°F)	100 (212)
Ultimate tensile strength at 25°C (77°F), psi	10,500
Modulus of tensile elasticity at 25°C (77°F), psi x10 <sup>5</sup>	4.4
Flexural strength at 25°C (77°F), psi	17,500
Modulus of flexural elasticity at 25°C (77°F), psi x10 <sup>5</sup>	4.0

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<b>LAMINATING*</b>	<b>Parts by weight</b>
ARALDITE 6005 CS	100
Hardener HY 956-2	25

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\* Glass cloth laminates prepared with 14 plies of 181 – Volan A glass cloth.  
Resin content: 30-40%

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<b>Cure</b>	2 hr. @ 82°C (180°F) + 1 hr. @ 150°C (302°F)
(Initial @ 25 psi post-cure oven)	

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<b>Typical Properties</b>	<b>Test Values</b>
Ultimate Flexural strength at 25°C (77°F), psi	72,000
Modulus of flexural elasticity at 25°C (77°F), psi x10 <sup>6</sup>	3.4

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Huntsman Advanced Materials Americas Inc. maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material. Copies of the latest MSDS may be requested by calling our customer service group at 888-564-9318 or emailing your request to [electronics@huntsman.com](mailto:electronics@huntsman.com).

**FIRST AID!**

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation: Remove subject to fresh air.

Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

**KEEP OUT OF REACH OF CHILDREN**

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