

Insulators and Bushings

Powered by **Araldite®** casting systems

The main requirement for insulators is to obtain high cantilever strength whereas for bushings, the main required properties are: void free castings, low partial discharge level of castings and gas tight castings when in use with SF6 gas.

For outdoor applications especially good and proven weathering resistance is required. Araldite® cycloaliphatic outdoor systems are backed by 40 years of service experience. Araldite® HCEP systems reduce leakage currents and therefore further improve reliability and extend life expectancy of insulators.

The latest developed Araldite® S-HCEP systems are semi-flexible new epoxy based shed materials with for composite insulators. They deliver similar hydrophobicity to the well-known Araldite® HCEP systems.



> Araldite® NPC systems



> Araldite® HCEP systems

Applications

- > Indoor Systems
- > Outdoor Systems

Adhesives
Cast resin distribution transformers
Electro composites
Generators and motors
Instrument transformers
Insulators & bushings
Switchgears



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Product Name	Mix Ratio	Tg	K _{1c}	Manufacturing Process	Main Features	Type
Unit	pbw	°C	MPa√m			
Resin XB 5915-1 / Hardener XB 5916-1	77 / 100	140	2.9	Automatic pressure gelation / Vacuum casting	Toughened, high Tg, wollastonite pre-filled, suitable for MV and HV, high crack resistance.	Indoor system
Araldite® CW 229 / Aradur® HW 229	100 / 100	115	2.9	Automatic pressure gelation / Vacuum casting	Wollastonite prefilled system, low thermal expansion coefficient, high crack resistance, moderate reactivity, UL 746 B recognition for 200°C service temperature.	Indoor system
Araldite® CY 228 / Aradur® HY 918 / Accelerator DY 062 / Filler Silica	100 / 85 / 0.8 / 345	115	2.1	Automatic pressure gelation / Vacuum casting	Standard, low viscosity, high filler load.	Indoor system
Araldite® CW 229 NPC Aradur® 229 NPC	100 / 100	115	2.9	Automatic pressure gelation	No post cure grade of Araldite® CW 229 / Aradur® HW 229, UL 746 B recognition for 200°C service temperature.	Indoor system
Resin XB 5992 Hardener XB 5993 Filler Silica	100 / 90 / 350	107	2.1	Automatic pressure gelation	No post cure after demolding, good thermal cycling resistance, saving processing cost.	Indoor system
Araldite® CW 5908 / Aradur® HW 5909	100 / 100	120	2.3	Automatic pressure gelation / Vacuum casting	High thermal shock resistance combined with high Tg for outdoor MV and heavy power electrical industry.	Outdoor system
Araldite® CY 184 / Aradur® HY 1235-1 / Accelerator DY 062 / Filler Silica-EST	100 / 90 / 0.5 / 290	105	2.4	Automatic pressure gelation / Vacuum casting	Long experience, liquid hardener, also used in severe indoor conditions (pollution humidity).	Outdoor system
Araldite® CW 5522 / Aradur® HW 5522	100 / 20	95	2.2	Automatic pressure gelation / Vacuum casting	Long experience prefilled system, also used in components for humid indoor medium and high voltage applications.	Outdoor system
Araldite® CY 5622 / Aradur® HY 1235 / Accelerator DY 062 / Filler Silica-EST	100 / 82 / 0.45 / 355	110	2.5	Automatic pressure gelation / Vacuum casting	Hydrophobic cycloaliphatic system with liquid hardener, excellent thermal cycle resistance, hydrophobicity transfer and recovery, extended insulator lifetime, utility approvals.	Outdoor system
Araldite® CW 5957 / Aradur® HW 5958	100 / 100	110	2.5	Automatic pressure gelation / Vacuum casting	Hydrophobic pre-filled cycloaliphatic system, improved crack resistance, hydrophobicity transfer and recovery, extended insulator lifetime.	Outdoor system
Resin XB 5829 / Hardener XB 5830	100 / 160	20	-	Automatic pressure gelation	Araldite® S-HCEP flexibilized hydrophobic cycloaliphatic epoxy system for severe climatic conditions.	Outdoor system

More detailed information about these products can be found on our website : www.huntsman.com/power
For any other information, please send an e-mail to : power@huntsman.com

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