

Instrument transformers

Powered by **Araldite®** casting systems

A general requirement for casting systems for instrument transformers is high crack resistance.

Therefore the glass transition temperature (T_g) of the cured system has to be properly chosen: as low as possible and only as high as necessary.

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 instrument transformers.



> Araldite® outdoor systems



> Araldite® indoor system

Applications

- > Indoor Systems for Medium Voltage
- > Outdoor Systems for Medium Voltage

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 _{IC}	Manufacturing Process	Main Features	Type
Unit	pbw	°C	MPa√m			
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, best suited for vacuum casting, UL 746 B recognition for 200°C service temperature.	Indoor system for MV
Araldite® CY 5538 / Aradur® HY 5571-1 / Filler Silica	100 / 100 / 390	55	3	Vacuum casting	Low viscosity, low Tg, high filler load.	Indoor system for MV
Araldite® CW 1227 / Aradur® HW 1227	100 / 100	65	-	Automatic pressure gelation / Vacuum casting	Prefilled, semi-flexible castings resin system with excellent mechanical properties and good long-term strength.	Indoor system for MV
Araldite® CY 228 / Aradur® HY 918 / Flexibilizer DY 040 / Accelerator DY 062 / Filler Silica	100 / 85 / 20 / 0.8 / 385	80	2.6	Automatic pressure gelation / Vacuum casting	Standard, low viscosity, high filler load.	Indoor system for MV
Araldite® CY 5995 / Aradur® HY 227 / Filler Silica	100 / 100 / 300	60	3.5	Vacuum casting	Highest Toughness and crack resistance.	Indoor system for MV
Araldite® CW 5898 / Aradur® HW 5899	100 / 20	80	2.7	Automatic pressure gelation / Vacuum casting	Prefilled system with excellent UV resistance for outdoor application.	Outdoor system for MV
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 for MV
Araldite® CY 184 / Aradur® HY 1235 / Flexibilizer DY 044 / Accelerator DY 062 / Filler Silica	100 / 90 / 20 / 0.6 / 410	80	3	Automatic pressure gelation / Vacuum casting / Rapid automatic pressure gelation	Excellent mechanical and dielectrical properties, good thermal shock, high resistance to erosion under UV, high tracking and arc resistance.	Outdoor system for MV
Araldite® CW 5837 / Aradur® HY 5836	100 / 20	75	2.8	Automatic pressure gelation / Vacuum casting	Prefilled system with very good mechanical and electrical properties.	Outdoor system for MV
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 HCEP system
Resin XB 5957 / Hardener XB 5958	100 / 100	110	2.5	Automatic pressure gelation / Vacuum casting	Hydrophobic cycloaliphatic system with liquid hardener, improved crack resistance, hydrophobicity transfer and recovery, extended insulator lifetime.	Outdoor HCEP 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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