

## Chemical/Physical Nature

ZC-189 resin is an unsaturated polyester resin with phthalic anhydride, maleic anhydride and standard glycol as the main raw materials. It has been dissolved in styrene cross-linking monomer and has medium viscosity and medium reactivity.

### Benefits and Application

ZC-189 resin meets the certification requirements of China Classification Society (CCS). It has good strength and rigidity and fast post-curing. It is suitable for hand lay-up process to produce various common water-resistant products such as inland river FRP ships, automobile parts, cooling towers, water tanks, etc.

## Liquid Resin Typical Properties

Property	Value	Unit	TM
Appearance	light yellow liquid	-	-
Acid value	19-25	mgKOH/g	GB/T 2895-2008
Viscosity, 25°C	0.3-0.6	Pa.s	GB/T 7193-2008
Solid content	59-66	%	GB/T 7193-2008
Thermal stability 80°C	≥24	h	GB/T 7193-2008
Gelation time 25°C	12-30	min	GB/T 7193-2008

## Unfilled Castings Typical Properties

Property	Value	Unit	TM
Appearance	Qualified	-	-
Barcol Hardness	42	-	GB/T 3854-2005
HDT	60	°C	GB/T 1634-2004
Break elongation	2.2	%	GB/T 2567-2008
Tensile strength	60	Mpa	GB/T 2567-2008
Tensile modulus	3800	Mpa	GB/T 2567-2008
Flexural strength	110	Mpa	GB/T 2567-2008
Flexural modulus	3800	Mpa	GB/T 2567-2008

## FRP Typical Properties

Property	Value	Unit	TM
Barcol Hardness	64	-	GB/T 3584-2005
Flexural strength	300	Mpa	GB/T 1449-2005
Flexural modulus	16500	Mpa	GB/T 1449-2005
Tensile strength	320	Mpa	GB/T 1447-2005
Tensile modulus	15500	Mpa	GB/T 1447-2005

## Application Guidelines

1. 189 resin contains wax and does not contain accelerators and thixotropic additives.
2. If you have higher performance requirements, please contact sales directly.

## Package

ZC-189 Net weight is 220 kg, metal barrel.

### Zhongtritium(Changzhou) Technology Co.,LTD

Tel/WhatsApp/Wechat: +86 18136701732

Email: info@tritiumupr.com

web: www.tritiumupr.com

ADD: Room 807, Building 5, No 1590 longjin Road, Xinbei District, Changzhou, China

