



ORTHOPHTHALIC RESIN (GRP-196)

Physical properties of liquid resin

Property	specifications	unit
Appearance	Clear	-
Viscosity (25 °C) DIN Cup 4	85±5	Seconds
Solid	64±2	%
Acid number	<30	Mg KOH/g
Color	< 1	Gardner
Shelf life at 25°C	>6	months

Curing properties

Property	specifications	unit
Gel time 1.44% CO 1% +2.2% MEKP	10±2	minutes
Curing time	18-28	minutes
Exothermic peak	160±10	°C

Mechanical and Physical properties of cured resin

Property	specifications	unit	Test method
Barcol hardness	40	-	ASTM D2583
Tensile strength	65	MPa	ASTM D638
Flexural strength	110	MPa	ASTM D790
HDT	75	C°	ASTM D648
Elongation at break	>3	%	ASTM D638
Flex. modulus	>3400	MPa	ISO 178
Tensile modulus	>3200	MPa	ISO/R527-2
Shrinkage	<1.5	%	DIN 53464