



ORTHOPHTHALIC RESIN (GRP-600)

Physical properties of liquid resin

Property	specifications	unit
Appearance	Clear	-
Viscosity (25 °C)	350-550	mPa.s
Solid	65±2	%
Acid number	<25	Mg KOH/g
Color	< 2	Gardner
Shelf life at 25°C	6	months

Curing properties

Property	specifications	unit
Gel time 1.44% CO 1% + 2.2% MEKP (Butanox M60)	9-11	minutes
Curing time	19-25	minutes
Exothermic peak	160-180	°C

Mechanical and Physical properties of cured resin

Property	specifications	unit	Test method
Barcol hardness	40-45	-	ASTM D2583
Tensile strength	>50	MPa	ASTM D638
Flexural strength	>95	MPa	ASTM D790
HDT	>70	C°	ASTM D648
Elongation at break	>3	%	ASTM D638
Flex. modulus	>3300	MPa	ISO 178
Tensile modulus	>3100	MPa	ISO/R527-2
Shrinkage	<1.5	%	DIN 53464

ایجاد هر گونه تغییرات در مشخصات فوق الذکر براساس درخواست مشتری قابل اعمال است.