



ORTHOPHTHALIC RESIN (GRP-110)

Physical properties of liquid resin

Property	specifications	unit
Appearance	Clear	-
Viscosity (25 °C) DIN Cup 4	55	Seconds
Solid	65±1	%
Acid number	<30	Mg KOH/g
Color	< 1	Gardner
Shelf life at 25°C	>6	months

Curing properties

Property	specifications	unit
Gel time 0.9% CO 1% +1.1% MEKP	30:00	minutes
Curing time	60:00	minutes
Exothermic peak	130	°C

Mechanical and Physical properties of cured resin

Property	specifications	unit	Test method
Barcol hardness		-	ASTM D2583
Tensile strength		MPa	ASTM D638
Flexural strength		MPa	ASTM D790
HDT		C°	ASTM D648
Elongation at break		%	ASTM D638
Flex. modulus		MPa	ISO 178
Tensile modulus		MPa	ISO/R527-2
Shrinkage		%	DIN 53464