

Rev :01

Type	Fire Retardant Unsaturated Polyester Resin
Description	C'POL 16111/A is pre-accelerated, thixotropic, Fire Retardant Orthophthalic based resin designed to offer the maximum degree of Limiting Oxygen Index, Low Smoke Density.

Specifications

Property	Value	Unit of Measurement
Viscosity @ 30°C (RV,Spindle-2,Rpm-30)	500 - 800	cps
Specific Gravity @ 25°C	1.45 ± 0.04	gms / cc
Gel Time @ 30°C (with 1.5% MEKP)	10 - 20	minutes

These properties are tested for liquid resin in accordance with the methods described in IS 6746 - 1994

Mechanical Properties (cast resin)

Property	Value	Unit of Measurement
Tensile Strength	30	Mpa
Tensile Modulus	5400	Mpa
Flexural Strength	55	Mpa
Flexural Modulus	3600	Mpa
Elongation at Break	1.13	%
Heat Distortion Temperature	75	°C

Cast cured for 24 hrs. At room temperature followed by 4 hrs. At 110 °C

Rev :02

Properties/Applications

This resin is useful in hand lay up & spray up applications where excellent fire retardant properties like Low Smoke Density, Oxygen Index, Flame spread along with mechanical strength is required.

Storage

Store below 25 °C & low humidity in securely closed containers. Exposure of containers to direct sunlight should be avoided at all cost. If proper storage facility is not available please consume the material as soon as it is delivered. Storage at high temperatures will adversely affect the shelf life.

Shelf life

If stored at suggested conditions the material is guaranteed 2 month(s) shelf life from the date of manufacturing. Opening the container to allow fresh air and rolling the can can help in improving the shelf life.

Safety

Hazards Identification

Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. The safety data sheet should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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