

Product Technical Data PATPOL 33-01

01. Description

PATPOL 33-01 is isophthalic based resin for making pultruded products. Resin is formulated to give good surface finish along with LPA addition and very good tensile properties for the requirement of process and final product both.

02. Application

For pultrusion process

03. Physical data in the liquid state (conforms to IS 6746 –1994)

<i>Property</i>	<i>Unit</i>	<i>Limits</i>	<i>Test method</i>
Appearance	--	Pale Yellow Clear Liquid	--
Specific Gravity	--	1.14±0.05	--
Viscosity at 25°C - Brookfield LVT (2/30)	<u>Mpa.s (cPs)</u>	500±50	--
Acid Value	Mg KOH/g	14±2	--
Non-Volatiles Content	%	66±2	--
Gel Time @ 30°C*	Minutes	12±2	--
Peak <u>Exotherm</u>	°C	240±10	--
Stability in the dark at 30°C	Months	2	--

*Using 1.5%Co (3%), 1.5% MEKP (50%)

04. Properties of cast resin laminate-AVAILABLE ON REQUEST

05. Post curing

Mature the laminate for 24 hours @ room temperature, followed by post curing @ 60°C for 16 hours or @ 80°C for 3 hours

06. Usage

PATPOL 33-01 performs best if the laminate is completely post cured. The quantity of catalyst and accelerator may be adjusted to get the optimum gel time. Since viscosity increases on the storage, styrene may be added to lower viscosity

07. Storage

PATPOL 33-01 remains stable for 2 months at 30°C in the dark. The stability deteriorates markedly at elevated temperatures, especially when exposed to direct sunlight

08. Packing

PATPOL 33-01 is packed in HDPE carboys (35 kg) & epoxy coated steel drums (225 kgs)

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