

February 2012

TAP SURFBOARD

Laminating Resin

DESCRIPTION

TAP Surfboard Resin is a medium-reactivity, low-viscosity unsaturated polyester surfacing resin. This resin is pre promoted for methyl ethyl keytone peroxide initiators, non thixotropic and formulated specifically for use in the laminating step of hand-lay-up products such as surfboards and sailboards.

APPLICATION

- Surfboards
- Sailboards

FEATURES	BENEFIT
Specially Promoted	Transparent, water clear cured color Cures Rapidly
Good handling Properties	Fast wetout of E-glass, S-glass, Aramid and Carbon reinforcements
Tough	Impact Resistant Resistance to Cracking
UV Stabilized	Resists yellowing from sunlight
Produced Utilizing Statistical Process Control (S.P.C. & S.Q.C.) Techniques	Batch-to-batch Consistency Uniformity

TYPICAL PROPERTIES @ 25° C (77° F)

Properties	Unit	Value	Test method
Non-Volatiles, NV		64	18-000/B070
Viscosity-Brookfield Model LV, Spindle 2 at 20 rpm	cps /mPas	450	18-021/ASTM D 2196-86
Specific gravity / Density	g/cm ³	1.07	18-030 / ISO 2811-2001
Color		Clear Aqua	Literal
(1) Gel time	minutes	9	18-050
Total time to Peak	minutes	19	18-050
Peak Exotherm	°C / °F	160 / 320	18-050
Flash point (Seta Closed Cup)	°C / °F	31.6 / 89	ASTM D 3278-95
Shelf life, minimum	months	3	

(1) 1.25 g NOROX® MEKP900 per 100 g resin)

TYPICAL NON REINFORCED MECHANICAL PROPERTIES AT 25°C (77°F)

Properties	Unit	Value	Test method
Barcol Hardness		40	ASTM D 2583
Specific Gravity		1.22	ASTM D 792
Heat Deflection Temperature	°C	63	ASTM D 648
Tensile Strength	psi	10330	ASTM D 638
Tensile Modulus	kpsi	585	ASTM D 638
Tensile Elongation	%	2.0	ASTM D 638
Flexural Strength	psi	19360	ASTM D 790
Flexural Modulus	kpsi	664	ASTM D 790
Compressive Strength (max.load)	psi	22,460	ASTM D 695
Compressive Modulus (max.load)	kpsi	458	ASTM D 695
Izod Impact "A" type,	Ft-lb/in	0.21	ASTM D 256
Izod Impact "E" type,	Ft-lb/in	1.7	ASTM D 256
Water Absorption @ 2 hr. boiling	%	1.2200	ASTM D 570
Water Absorption @ 24 hr. room temp	%	0.1920	ASTM D 570
CURED DATA			

MEKP 1/8" Clear Casting initiated with 1.25% Syrgis[®] MEKP900

Gel Overnight at RT (16 hrs at 23°C / 73°F)

Post Cure 2 hrs at 65°C / 150°F, then 2 hrs at 121°C / 250°F

STORAGE

To ensure maximum stability and maintain optimum resin properties, resins should be stored in the original closed container at temperature below 24°C/75°F and away from heat ignition sources and sunlight. Resin should be warmed to at least 18°C/65°F prior to use in order to assure proper curing and handling. All storage areas and containers should conform to local fire and building codes. Copper or copper containing alloys should be avoided as containers. Store separate from oxidizing materials, peroxides and metal salts. Keep containers closed when not in use. Inventory levels should be kept to a reasonable minimum with first-in, first-out stock rotation.

SAFETY

READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT

Obtain a copy of the material safety data sheet on this product or contact TAP Plastics prior to use. Material safety data sheets are available from at tapplastics.com. Such information should be requested from suppliers of all products and understood prior to working with their materials.

DIRECTLY MIXING ANY ORGANIC PEROXIDE WITH A METAL SOAP, AMINE, OR OTHER POLYMERIZATION ACCELERATOR OR PROMOTER WILL RESULT IN VIOLENT DECOMPOSITION. WHEN ADDING ORGANIC PEROXIDES TO A RESIN SOLUTION, PROMPTLY AND THOROUGHLY MIX THE RESULTING PRODUCT. NEVER ADD ORGANIC PEROXIDES TO A HOT DILUENT OR PROCESS. PREVENT CONTAMINATION WITH FOREIGN MATERIALS, INCLUDING WITHOUT LIMITATION, ACCELERATORS (SUCH AS DIMETHYL, ANILINE, OTHER AMINES OR COBALT COMPOUNDS), HEAVY-METAL OXIDES OR SALTS (PARTICULARLY THOSE OF COBALT, IRON AND COPPER), STRONG ACIDS AND SANDING DUSTS. USE CLEAN CONTAINERS MADE OF GLASS, POLYPROPYLENE, TEFLON, POLYETHYLENE, OR CERAMIC TO PREVENT CONTAMINATION OF ORGANIC PEROXIDES DURING ITS HANDLING.

TECHNICAL SUPPORT

Properties reported in this bulletin are typical of those obtained in controlled laboratory tests and may vary in actual production; therefore, we require our customers to inspect and test our products before using them to satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. **Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is protection from any law or patent to be inferred.**