TECHNICAL DATASHEET POLYESTER

DESCRIPTION

Polyester is a medium reactive orthophthalic polyester resin.

Polyester is thixotropic and has a built-in accelerator system giving medium gel time, rapid curing combined with relatively low exothermic temperature and short demolding time.

Polyester contains special additives which improve the working environment during and after application due to substantially reduced styrene evaporation. The resin contains wax which gives the cured laminate a tack-free surface.

APPLICATION

- Polyester is a hand layup/sprayup resin.
- Polyester is designed for marine, industrial and transport application.

Recommended laminate thickness applied wet-on-wet: 2-8 mm.

FEATURES	BENEFITS		
- Excellent application properties	Short application timeGood fiber wettingHigher fiber content		
- Medium reactivity	Good curingShort demoulding time		
- Approvals	 Det norske Veritas, DNV, grade 2 Lloyd's Register of Shipping Bureau Veritas Germanischer Lloyd Russian Maritime register 		

Polyester meets the requirements of type 1110 as defined in DIN 16946 for mechanical and thermal properties.



TYPICAL PROPERTIES

PHYSICAL DATA IN LIQUID STATE AT 23°C

Properties	Unit	Value	Test method
Viscosity			
 Brookfield Model LVF, Spindle 2 	mPa.s(cP)	1100-1300	ASTM D 2196-86
at 12 rpm			
- Cone & Plate	mPa.s(cP)	170-200	ISO 2884-1999
Specific gravity / Density	g/cm³	1,10	ISO 2811-2001
Acid number (max.)	mgKOH/g	24	ISO 2114-1996
Styrene content	% weight	44 ± 2	B070
Flash point	°C	32	ASTM D 3278-95
Gel time: 1% NORPOL PEROXIDE 1	minutes	35-45	G020
(MEKP)			
Storage stability from date of	months	6	G180
manufacture			

TYPICAL NON-REINFORCED CASTING PROPERTIES

Fully post cured.

Properties	Unit	Value	Test method
Tensile strength	MPa	50	ISO 527-1993
Tensile modulus	MPa	4600	ISO 5271993
Tensile elongation	%	1.6	ISO 527-1993
Flexural strength	MPa	90	ISO 178-2001
Flexural modulus	MPa	4000	ISO 178-2001
Impact strength P4J	mJ/mm²	5.0-6.0	ISO 179-2001
Volume shrinkage	%	5.5-6.5	ISO 3521-1976
Heat distortion temp.	°C	62	ISO 75-1993

STORAGE

Store in the shade, out of direct sunlight. Keep storage temperature below 25° C. Unseal container just before use. Shelf life will be reduced reaching higher temperature.

SAFETY

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

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