Technical data sheet

October 2014

POLYLITE® 32032-20

DESCRIPTION

POLYLITE® 32032-20 is a water-white, clear casting resin designed for applications in which extreme clarity and absence of colour are required. Castings made with POLYLITE® 32032-20 have the same refractive index as glass. Suggested applications include decorative castings, tabletops and biological encapsulations

POLYLITE® 32032-20 is a preaccelerated, UV stabilised orthophthalic polyester, with a low viscosity and low reactivity.

POLYLITE® 32032-20 contains methyl methacrylate to enhance weather resistance.

FEATURES	BENEFITS
• Acrylic-Modified	• Refractive index of glass • Resistance to weathering
• Low viscosity	• Outstanding air release
• Specially promoted	• Short gel and cure times • Clear, water white when cured.

TYPICAL PROPERTIES

PHYSICAL DATA IN LIQUID STATE AT 25°C

Properties	Unit	Value	Test Method
Viscosity:- Brookfield LV SP3/60 rpm	cps	300-400	ASTM 2196-86
Styrene Content	%	36-40	BS 6782: Part 1: 1987
Density	g/cm^3	1.10 ± 0.02	BS 3900: Part A12: 1975
Flash Point	^{o}C	32	BS 3900: Part A9: 1986
Colour		Blue, clear	
Geltime: 1.25% BUTANOX M50	minutes	18-30	
Cure time	minutes	50-80	
Peak Exotherm		115-160	
Stability at 20°C from date of manufacture	months	3	

All POLYLITE® products are Quality Controlled with the specified catalyst. However, alternatives are available and all users should be aware that a single catalyst formulation cannot provide optimum results in all resin systems. The interaction between the catalyst and the inhibitor/accelerator systems used in our products is complex and varies from resin to resin. Consequently the gel and cure characteristics

provided by alternate catalysts can vary greatly from those specified. It is, therefore, absolutely essential that the user evaluate each alternate catalyst in each product before full-scale manufacture is started.

MECHANICAL DATA IN THE CURED STATE

Fully post-cured

Properties	Unit	Value	Test Method
Tensile Strength	MPa	69	ASTM D-638
Flexural Strength	MPa	90	ASTM D-790
Compressive Strength	MPa	138	ASTM D-785
Heat Dist. Temp	^{o}C	74	ASTM D-648
Barcol Hardness	934-1	35-40	ASTM D 2583-1999

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