

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

- Acrylic-Modified
- Low viscosity
- Specially promoted

BENEFITS

- Refractive index of glass
- Resistance to weathering
- Outstanding air release
- 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	°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	°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

The information contained in this document (which is to be intended only for explanatory purposes) is correct and accurate and is based on our technical and scientific knowledge and on literature at the date of publication. Such information relates only to use of the products in the pure state and for the purposes stated herein. Nothing in the information contained in this document shall be deemed to be a warranty or a representation (explicit or implicit) by the supplier, and/or taken or construed as infringing of any existing patents. The supplier shall not be under any liability or responsibility for any of the information provided under this document or for any errors, omissions or misstatements, even with regard to results to be obtained through the use of the aforesaid information.