

Polylite

POLYLITE® 32032-00 ACRYLIC- MODIFIED CLEAR CASTING RESIN

DESCRIPTION

Polylite® 32032-00 is a water-white, clear casting resin designed for applications in which extreme clarity and absence of color are required. Castings made with PolyLite® 32032-00 have the same refractive index as glass. Suggested applications include decorative castings, tabletops, *objets d'art*, and biological encapsulations.

PolyLite® 32032-00 is orthophthalic, has a low viscosity and low reactivity, and is prepromoted to cure at room temperature when initiated with Superox® 46709 methyl ethyl ketone peroxide. This resin contains methyl methacrylate to enhance weather resistance.

FEATURES

- Acrylic-modified
- Low-shrink
- Specially promoted
- Manufactured using statistical process and quality controls

BENEFITS

- Refractive index of glass
- Resistance to weathering
- Outstanding air release
- Short gel and cure times
- Clear, water-white when cured
- Consistent performance, batch to batch

SIMILAR RESINS

- PolyLite 32030-10
 - Non-acrylic-modified clear casting resin
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The information herein is to help customers determine whether this product is suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers 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. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages.

TYPICAL LIQUID PROPERTIES¹ @ 25 °C

VERSION	%NV RCI 18-001	VISCOSITY* CPS RCI 18-021	THIX INDEX RCI 18-021	GEL TIME MINUTES RCI 18-050	TOTAL TIME TO PEAK RCI 18-050	PEAK EXOTHERM °F RCI 18-050	SPECIFIC GRAVITY RCI 18-030	COLOR LIQUID RCI 18-043
32032-00	62	350	-	23.0	65.0	270	1.12	blue-green
32032-20	62	350	-	23.0	65.0	270	1.12	blue-green

* Brookfield LVF, spindle #3 @ 60 rpm
 ** With 1.25% by volume of 46709 per 100 grams of resin

Shelf Life is three months. Minimum shelf life performance refers to product in the original, unopened container. Shelf stability is affected by storage conditions. See the "Storage" section of this bulletin for further details.

TYPICAL MECHANICAL PROPERTIES¹ @ 25°C

	ASTM Test Method	
Clear		
Casting		
Barcol Hardness	D-2583.....	35 - 40
Heat Distortion Temperature, °C (°F)	D-648.....	74 {165}
Tensile Strength, psi	D-638.....	10,000
Flexural Strength, psi.....	D-790.....	13,100
Compressive Strength, psi.....	D-785.....	20,000

CURE CONDITIONS

1/8-inch clear castings, initiated with 1.25% Superox® 46709, cured overnight at room temperature, then post-cured for 2 hours at 250°F.

STORAGE

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F (25°C) and away from heat sources and sunlight. All storage areas and containers should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable minimum with first-in, first-out stock rotation.

Additional information on handling and storing unsaturated polyesters is available in Reichhold's application bulletin "Bulk Storage and Handling of Unsaturated Polyester Resins." For information on other Reichhold resins or initiators, contact your sales representative or authorized Reichhold distributor.

STANDARD PACKAGE

Non-returnable 55-gallon metal drums (500 lbs. net) or 40,000-44,000-lb. tank truck.

¹ Properties reported in this bulletin are typical of those obtained in controlled laboratory tests and may vary.

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 before use. Material safety data sheets are available from your Reichhold sales representative. Such information should be requested from suppliers of any chemical and understood before working with the material.

DIRECTLY MIXING ANY ORGANIC PEROXIDE WITH A METAL SOAP, AMINE, OR OTHER POLYMERIZATION ACCELERATOR OR PROMOTER WILL RESULT IN VIOLENT DECOMPOSITION.



TECHNICAL SUPPORT

Reichhold's technical support staff has extensive practical experience with polyesters and manufacturing techniques. Please do not hesitate to request our assistance through your sales representative.

Copies of test methods used to determine reported properties are available through your Reichhold sales representative.

Polylite® is a registered trademark for Reichhold, Inc.
