

POLYLITE® 31538-00
R T M POLYESTER RESIN

DESCRIPTION

POLYLITE 31538-00 is an orthophtalic, medium reactivity, low viscosity, unsaturated polyester resin.

POLYLITE 31538-00 is not thixotropic and not pre-accelerated. The resin is designed for curing at ambient temperature to 60°C with MEK Peroxide or AA Peroxide catalysts.

APPLICATION

- RTM
- Injection low pressure

CARACTERISTIQUES

AVANTAGES

- | | |
|---|--|
| <ul style="list-style-type: none"> • Very low viscosity • Medium reactivity • Statistically process and quality controlled | <ul style="list-style-type: none"> • Rapid wetting of glass reinforcements and fillers. • Allows high filler loading to obtain low cost or rigid parts. • Rapid flow in RTM process. • Short cycle times. • High degree of curing. • Batch-to-batch consistency. |
|---|--|

PROPERTIES

PHYSICAL DATA IN LIQUID STATE

Properties	Unit	Value	Test method
Viscosity at 20°C Brookfield RVT spindle 3, 50rpm	mPa.s (cps)	140 – 160	2460-001
Density	g/cm3	1 – 1.110	2100-001
Styrene content	% weight	41 - 45	2230-001
Acid number	Mg KOH	20	2000-001
Flash point	° C	32	ASTM D 3278 - 95
Geltime at 23°C: + 1.2% Co 1% + 2% NORPOL PEROXIDE 1 (PMEC)	Minutes	8– 10	2160-019
Storage stability from date of manufacture	Months	6	G180

L'information ci-incluse est donnée pour aider les clients à déterminer si nos produits sont appropriés à leurs applications. Nos produits sont destinés à la vente aux clients industriels et commerciaux. Nous demandons que nos clients contrôlent et vérifient nos produits avant leur utilisation et qu'ils s'assurent de leur contenu et leur adaptabilité. Nous garantissons que nos produits seront en conformité avec les spécifications écrites. Rien ci-inclus ne constituera aucune autre garantie expresse ou implicite, y compris n'importe quelle garantie concernant la convenance pour la vente ou pour toutes autres utilisations. De plus, aucune protection de n'importe quelle loi ou brevet ne doit être inférée. Tous les droits de brevets sont réservés. La réparation exclusive pour toutes les réclamations prouvées est le remplacement de nos matériaux et dans aucun cas nous ne serons responsables pour des dommages spéciaux, incidents ou indirects

TYPICAL NON-REINFORCED CASTING PROPERTIES

Properties	Unit	Value	Test method
Tensile strength	MPa	55	ISO 527-1993
Tensile Modulus	MPa	2700	ISO 527-1993
Tensile elongation @break	%	2,6	ISO 527-1993
Flexural strength	MPa	110	ISO 178 -2001
Flexural modulus	MPa	3700	ISO 178 -2001
Heat distortion temperature	° C	63	ISO 75-1993

STORAGE

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures 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.

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.

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 prior to use. Material safety data sheets are available from your Reichhold sales representative. 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