

PRODUCT CODE: C220531

Polyplex 916 VN FILAMENT WINDING RESIN is a pre-accelerated, wax-free, thixotropic, medium reactivity isophthalic polyester resin intended for filament winding applications.

FEATURES

- Excellent air release and glass-fibre wetting properties
- Medium reactivity and cure rate
- High tensile elongation – toughness
- High heat distortion temperature

RECOMMENDED CATALYST

1 - 2 % Butanox M50 MEKP for all general purpose applications

TYPICAL LIQUID RESIN PROPERTIES @ 25°C

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	Hazy Blue liquid	
Viscosity	1400 – 1800 cP 500 – 700 cP	Brookfield LV sp.3/6rpm Brookfield LV sp.3/60rpm
Geltime	45 – 55 minutes	1v/w% Butanox M50
C/P viscosity	2 – 3 Poise	
Shelf Life	6 months	When stored in original closed container in the shade

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL CAST UNFILLED RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	45	Barcol (GYZ 934-1) EN 59
Density	1.08kg/m ³	ISO R1183
Tensile Strength	74 MPa	ISO R527
Flexural Strength	131 MPa	ISO 178
Flexural Modulus	3894 MPa	ISO 178
Elongation at break	3.9%	ISO R527
Heat Distortion Temperature	90.4°C	ASTM D648

Cast resin was prepared using 1.5w/w% MEKP NR20. Cured at room temperature for sixteen hours then post cured for three hours at 105°C

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins and Gelcoats should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use