



Technical Data Sheet

QUPOL – 191 V – Vinylester Resin

General Description:

QUPOL-191V is a Vinyl Ester resin based on Bisphenol A – Epoxy Resin. It displays excellent mechanical properties which are characteristic of this resin type with especially high elongation and heat distortion temperature.

Applications:

QUPOL-191V can be fully recommended for the production of items which are subject to extremely severe conditions; especially corrosive atmosphere under high mechanical loads with elevated temperatures. Long time durability is the keynote.

Typical Properties – Liquid Resin:

Viscosity (25°C) Mpa's	450 – 600
Solid Content %	60 – 66
Styrene Content %	34 – 40
Acid Value (Mg KOH/g)	8 – 16
Appearance	Transparent
Stability (Unanalyzed in dark @ 25°C) Months	6
Density (20°C) Kg/m	1025 – 1070
Gel – Time (SPI) Minutes @ 25°C	8 – 12



Typical Physical Properties (Cast Unfilled Resin):

Tensile Strength MPa	62 – 68
Tensile Modulus MPa	3100 – 3400
Elongation at Break %	4 – 5
Flexural Strength MPa	140 – 165
Flexural Modulus MPa	4000 – 5000
Heat Distortion Temp (ASTM 648-56) °C	90 – 100
BARCOL Hardness (GYZJ 934-1)	38

Delivery Forms:

QUPOL-191V can be delivered as a pre-accelerated version, or a Thixotropic version with modified Styrene content to suit any individual client needs. These two versions are provided on special request only.

Important Note:

The information given herein is based on our current tests and experience. Since the usage of the resin supplied is subject to many varying factors, and different processing conditions, all of which are out of our control, the submitted data does not imply any legally binding assurance of properties or suitability for any specific application.