

PRODUCT DATA SHEET

Plexinate P100

Introduction

Plexinate P100 is a polyurethane resin in styrene designed for high performance fibreglass composites. Plexinate P100 has excellent compatibility with glass fibres and is cured at elevated temperatures with heat-activated peroxides, or ambient temperatures with cobalt/peroxide or BPO/DMA. Plexinate P100 also has the unique ability to cure rapidly at ambient temperatures in thick sections with the use of light and photoinitiators. Plexinate P100 offers composite designers and manufacturers a range of benefits that cannot be obtained with conventional unsaturated polyesters, vinyl esters or epoxies.

Key Benefits

- High Tensile Strength
- High Flexural Strength
- Outstanding Chemical Resistance
- High Heat Deflection Temperature
- High Reactivity, Rapid Cure
- Low Shrinkage On Curing
- Conventional Peroxide Cure Or High Speed Light Cure

Physical Properties of Unfilled Plexinate P100 Castings

Tensile Strength	87	MPa	12,626	psi
Flexural Strength	130.7	MPa	18,969	psi
Tensile Modulus	3.9	GPa	566,038	psi
Flexural Modulus	3.8	GPa	551,524	psi
Heat Deflection Temperature	135	oC	275	oF
Elongation At Break	3.5	%		
Barcol Hardness	42-44			
Specific Gravity	1.1			

Liquid Resin Properties

Polyurethane Polymer Content	55	%
Styrene Content	42-43	%
Methyl Methacrylate	2-3	%
Viscosity @ 25oC (Brookfield LVF 2/60)	200-350	cP
Specific Gravity	1.043	
Colour	Straw Yellow	
Isocyanate Content	0	%
Clean-up	Acetone	