

TSE Industries EcoWIND® P200G High Performance Filament Winding Polyurethane Resin for Pipes

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid

Material Notes:

TSE-EcoWIND® resins are “Environmentally-Preferred Products” or EPP’s. They are a pair of polyurethane resins free of Styrene, and are “ultra-low” emitting during application. TSE-EcoWIND® resins are formulated for filament winding applications serving the composite pressure vessel, tank, and piping markets. These PU resins have tested positively in both hot and cold pressure vessel applications and can be applied to reinforce thermoplastic substrates (i.e. polyethylene, ABS, etc.) or applied directly to a release coated mandrel surface. All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-EcoWIND-P200G-High-Performance-Filament-Winding-Polyurethane-Resin-for-Pipes.php

Physical Properties	Metric	English	Comments
Viscosity	100 - 300 cP	100 - 300 cP	
	@Temperature 75.0 °C	@Temperature 167 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	89.0 MPa	12900 psi	Plain Cast Resin; ASTM D638
Elongation at Break	5.0 - 6.0 %	5.0 - 6.0 %	Plain Cast Resin; ASTM D638
Modulus of Elasticity	3.00 GPa	435 ksi	Plain Cast Resin; ASTM D638
Flexural Yield Strength	115 MPa	16700 psi	Plain Cast Resin; ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	Plain Cast Resin; ASTM D790
Izod Impact, Notched	4.78 J/cm	8.95 ft-lb/in	Plain Cast Resin; ASTM D256
Charpy Impact, Notched	0.230 J/cm²	1.09 ft-lb/in²	Plain Cast Resin

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	Plain Cast Resin; ASTM D648
Glass Transition Temp, Tg	145 °C	293 °F	Plain Cast Resin; ASTM D3418

Processing Properties	Metric	English	Comments
Pot Life	40.0 - 60.0 min	40.0 - 60.0 min	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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