

TSE Industries EcoWIND® T211 Filament Winding Polyurethane Resin for Tanks and Pressure Vessels with Thermoplastic Liners

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-T211-Filament-Winding-Polyurethane-Resin-for-Tanks-and-Pressure-Vessels-with-Thermoplastic-Liners.php

Physical Properties	Metric	English	Comments
Viscosity	100 - 400 cP	100 - 400 cP	
	@Temperature 45.0 °C	@Temperature 113 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.0 MPa	9280 psi	Plain Cast Resin; ASTM D638
Elongation at Break	4.0 - 5.0 %	4.0 - 5.0 %	Plain Cast Resin; ASTM D638
Modulus of Elasticity	2.80 GPa	406 ksi	Plain Cast Resin; ASTM D638
Flexural Yield Strength	95.0 MPa	13800 psi	Plain Cast Resin; ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	Plain Cast Resin; ASTM D790
Izod Impact, Notched	4.80 J/cm	8.99 ft-lb/in	Plain Cast Resin; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	Plain Cast Resin; ASTM D648
Glass Transition Temp, Tg	86.0 °C	187 °F	Plain Cast Resin; ASTM D3418

Processing Properties	Metric	English	Comments
Pot Life	15.0 - 20.0 min	15.0 - 20.0 min	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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