

## TSE Industries EcoWIND® M110 General Purpose Filament Winding Polyurethane Resin

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-M110-General-Purpose-Filament-Winding-Polyurethane-Resin.php](http://www.lookpolymers.com/polymer_TSE-Industries-EcoWIND-M110-General-Purpose-Filament-Winding-Polyurethane-Resin.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	66.0 MPa	9570 psi	Plain Cast Resin; ASTM D638
Elongation at Break	3.5 - 4.5 %	3.5 - 4.5 %	Plain Cast Resin; ASTM D638
Modulus of Elasticity	3.20 GPa	464 ksi	Plain Cast Resin; ASTM D638
Flexural Yield Strength	97.5 MPa	14100 psi	Plain Cast Resin; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	Plain Cast Resin; ASTM D790
Izod Impact, Notched	4.30 J/cm	8.06 ft-lb/in	Plain Cast Resin; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	Plain Cast Resin; ASTM D648
Glass Transition Temp, Tg	83.0 °C	181 °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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