

TSE Industries EcoSPRAY® 350c Flame-Retardant Polyurethane Resin

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

TSE-EcoSPRAY® 350c is an "Environmentally-Preferred Product" or EPP. It is a Thixotropic flame retardant polyurethane resin free of Styrene, and is an "ultra-low" emitting resin during application. TSE-EcoSPRAY® 350c is designed for spray-up applications requiring ANSI Z-124 approval. This PU resin has extensive ANSI Z-124 approvals and can be applied to reinforce both PU gel coat and thermoplastic substrates (i.e. Acrylic, Polycarbonate, ABS and co-extrusions thereof) in FRP plumbing fixture and spa shell applications. All information provided by TSE Industries

Order this product through the following link:

http://www.lookpolymers.com/polymer_TSE-Industries-EcoSPRAY-350c-Flame-Retardant-Polyurethane-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	Part B
Viscosity	8000 cP	8000 cP	Part A
	15000 cP	15000 cP	Part B

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92 - 93	92 - 93	Clear Casting
	92 - 93	92 - 93	20% Glass Laminate
	92 - 93	92 - 93	21% Glass Spray-up Laminate
	92 - 93	92 - 93	20% Glass RTM Laminate
Tensile Strength, Yield	50.0 - 52.0 MPa	7250 - 7540 psi	20% Glass Laminate
	54.0 MPa	7830 psi	21% Glass Spray-up Laminate
	60.0 MPa	8700 psi	Clear Casting
	62.0 MPa	8990 psi	20% Glass RTM Laminate
Tensile Modulus	6.29 GPa	912 ksi	Clear Casting
	7.72 GPa	1120 ksi	21% Glass Spray-up Laminate
	7.72 - 7.93 GPa	1120 - 1150 ksi	20% Glass Laminate
	8.41 GPa	1220 ksi	20% Glass RTM Laminate
Flexural Strength	82.0 MPa	11900 psi	Clear Casting
	100 - 113 MPa	14500 - 16400 psi	20% Glass Laminate

Mechanical Properties	121 MPa Metric	17500 psi English	21% Glass Spray-up Laminate Comments
	153 MPa	22200 psi	20% Glass RTM Laminate
Flexural Modulus	6.14 GPa	891 ksi	Clear Casting
	6.00 - 6.30 GPa	870 - 914 ksi	20% Glass Laminate
	7.10 GPa	1030 ksi	21% Glass Spray-up Laminate
	8.83 GPa	1280 ksi	20% Glass RTM Laminate

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	233 °C	451 °F	20% Glass Laminate; unspecified load
	233 °C	451 °F	21% Glass Spray-up Laminate
	233 °C	451 °F	20% Glass RTM Laminate

Processing Properties	Metric	English	Comments
Cure Time	25.0 min	0.417 hour	
	@Temperature 57.2 - 62.8 °C	@Temperature 135 - 145 °F	post-cure
Gel Time	3.00 - 18.0 min	3.00 - 18.0 min	when reacted at 1:1 by volume, based on the application
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 21.1 - 35.0 °C	@Temperature 70.0 - 95.0 °F	Part B
	6.00 Month	6.00 Month	
	@Temperature 21.1 - 35.0 °C	@Temperature 70.0 - 95.0 °F	Part A

Descriptive Properties	Value	Comments
Appearance	Brown	Part A
	Gray	Part B
Thixotropic Index	2.3	Part A
	4.1	Part B

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China