

# Hetron™ FR 650 T-20

Thermoset Polyester  
Ashland Performance Materials

Message:

HETRON FR 650 Series resins are flame retardant polyester resins. Composites made with HETRON FR 650 Series resins have been tested and have achieved a Class 1 Flame Spread per ASTM E-84 without addition of synergists such as antimony trioxide.

HETRON FR 650 T-20 resin is a low viscosity, promoted, thixotropic, version. It exhibits excellent wet-out properties and low drainage when applied to vertical surfaces. This resin is formulated to contain 35% styrene.

APPLICATIONS AND USE

HETRON FR 650 Series resins, depending on the grade selected, can be used in hand lay-up, spray-up, filament winding and infused flame retardant applications. Markets include architectural, mass transit, passenger rail, electrical and mine ducting.

General Information			
Features	thixotropic		
	Low viscosity		
	High strength		
	Enhanced activity		
	Flame retardancy		
Agency Ratings	ASTM E 84 Class 1		
Forms	Liquid		
Processing Method	Filament power winding		
	Hand coating		
Physical	Nominal Value	Unit	
Solution Viscosity <sup>1</sup>	450	mPa·s	
Solids Content	60	%	
Thixotropic Index	2.80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3520	MPa	ASTM D638
Tensile Strength	77.2	MPa	ASTM D638
Tensile Elongation (Break)	2.7	%	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	123	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	68.9	°C	ASTM D648
Additional Information	Nominal Value	Unit	
Properties of cured casting at 25°C			
Uncured Properties	Nominal Value	Unit	
Gel Time	25	min	
NOTE			

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#### Recommended distributors for this material

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