

Modar™ 820 TC

Acrylic

Ashland Performance Materials

Message:

MODAR 820 TC resin is a novel resin composition designed for architectural and mass transit applications. Fire retardant laminates made with MODAR 820 TC resin and filled with alumina trihydrate (ATH) have met ASTM E-84 class 1 flame spread index requirements and exhibit low smoke characteristics typically required by building codes. These same compositions additionally meet mass transit requirements as measured by ASTM E662 and E162. MODAR 820 TC resin readily accepts high filler loadings without substantial loss of its cured mechanical properties. The filled resin mix also exhibits exceptional suspension stability.

APPLICATIONS AND USE

MODAR 820 TC resin can be used for architectural applications, ductwork and mass transit components wherever superior fire retardance and low smoke characteristics are desired. This resin can be used for spray-up, hand lay-up and low pressure closed molding processes including infusion and resin transfer molding.

General Information	
Features	Low smoke
	Flame retardancy
Uses	Laminate
Agency Ratings	ASTM E 162
	ASTM E 662
	ASTM E 84 Class 1
Forms	Liquid
Processing Method	Hand coating
	Resin transfer molding

Physical	Nominal Value	Unit	
Solution Viscosity ¹	35	mPa · s	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3520	MPa	ASTM D638
Tensile Strength	70.3	MPa	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength	109	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.9	°C	ASTM D648

Additional Information		
Properties of a 3.2mm unfilled resin casting.		
Uncured Properties	Nominal Value	Unit
Gel Time	20	min

NOTE	
1.	Brookfield RTV #3, 50 rpm

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