

PRODUCT DATA SHEET



TENCATE ADVANCED COMPOSITES

RS-16

TYPICAL APPLICATIONS

275°F (135°C) Cyanate Ester
RTM Resin System

PRODUCT FORMS

- Liquid Resin

SHELF LIFE

Pot Life
230 minutes at 167°F (75°C)
60 minutes at 212°F (100°C)

Frozen Storage Life
12 months storage life at <40°F (4°C)

PRODUCT DESCRIPTION

RS-16 is a low temperature, low viscosity cure cyanate ester resin which can be used in wet winding, RTM and VARTM processing. Its two part construction allows easy and long term storage while delivering excellent pot life. It is intended for lower temperature exposure with a moderate Tg requirement, and is an ideal system when used with different materials limiting the upper cure temperature. The system may also be cured using different combinations of cure/post cure temperatures and durations.

PRODUCT BENEFITS/FEATURES

- 275°F (135°C) 2 hour curing cyanate resin with optional post cure cycles
- RTM resin with very low viscosity at temperature
- Low Viscosity at elevated temperature
- Two part resin: Mix Ratio 100:9 Part A to Part B

NEAT RESIN PHYSICAL PROPERTIES

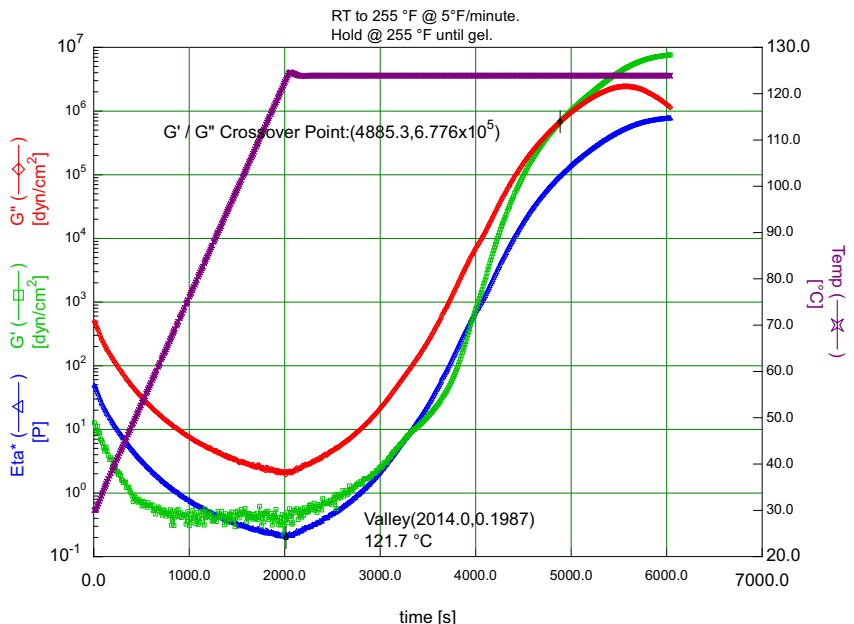
Specific Gravity 1.21 g/cc
Tg No post cure: 300.9°F (149.4°C)
Post Cure A: 448.2 °F (231.2°C)
Post Cure B: 446.4°F (230.2°C)
Viscosity (at 122°F/50°C) 500 cps
Minimum Viscosity (at 221°F/105°C)..... 30 cps

Tg specimen cure: Ramp to 235°F (113°C) and hold for 4 hours, then ramp to 275°F (135°C) and hold for 1.5 hours
Post Cure A: 300°F (149°C) for 2 hours Post Cure B: 350°F (177°C) for 2 hours

NEAT RESIN MECHANICAL PROPERTIES

Properties	Condition	Method	Results	
Flexural Modulus	RTD	ASTM D7264	592 ksi	4.1 GPa
Flexural Strength	RTD	ASTM D7264	23.1 ksi	159 MPa
Flexural Strain	RTD		4.1%	

FB16K461-1, FB16K449-1, RS-16 Part A and B, Iso Profile 1



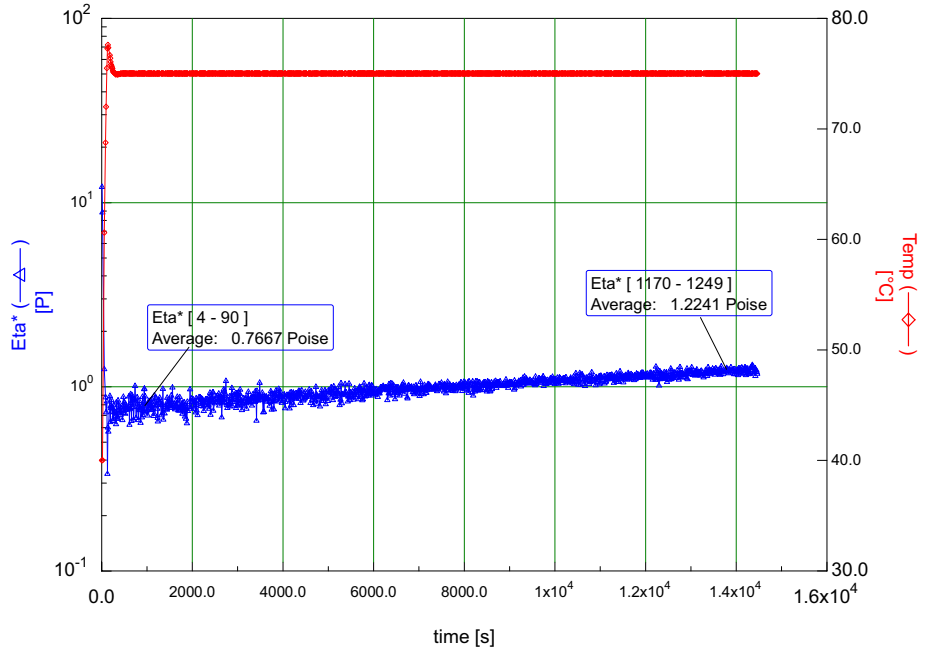
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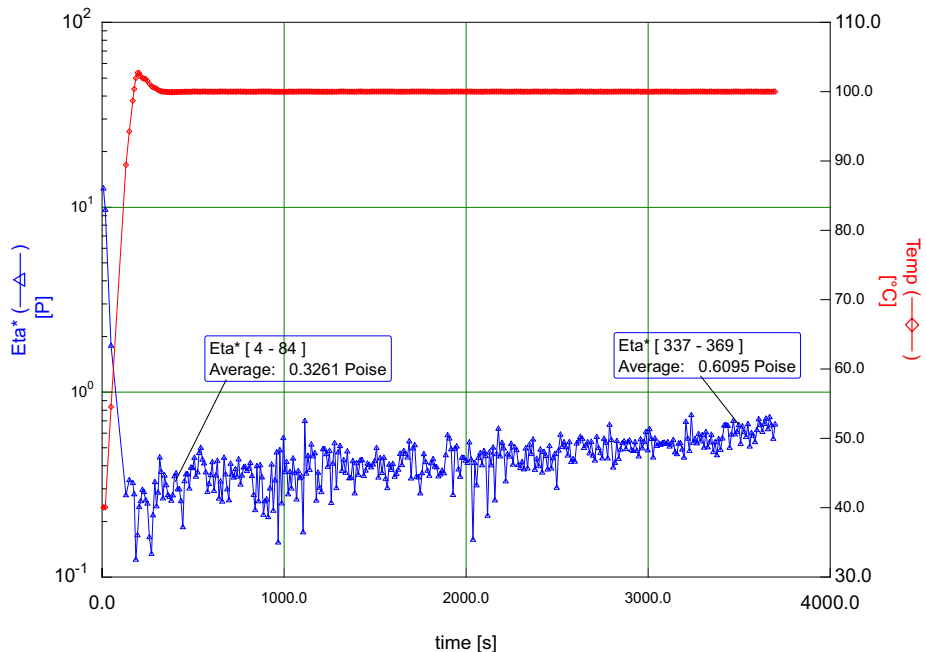
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FB18K745 RS-16 Part A and FBK746 RS-16 Part B, Iso @ 75 C



FB18K745 RS-16 Part A and FBK746 RS-16 Part B, Iso @ 100 C



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All data given is based on representative samples of the materials in question. Since the method and circumstances under which these materials are processed and tested are key to their performance, and TenCate Advanced Composites has no assurance of how its customers will use the material, the corporation cannot guarantee these properties.

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