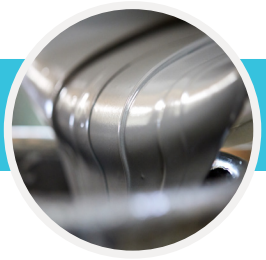
ResinFormulators
INNOVATIVE MATTERS

RF 1164 A/B



RF 1164 is a medium viscosity, low density syntactic epoxy system designed for edge close out and insert bonding or core densification where high temperature performance is needed. RF 1164 will require a post cure of at least 180°F for 1-2 hours to achieve full temperature performance.

HANDLING PROPERTIES, TYPICAL

PROPERTY	RF 1164 A/B
Mix Ratio: by Weight*	100:28.8
by Volume	N/A
Mixed Color	Light Grey
Mixed Viscosity @ 77°F (25°C), cps	20,000
Pot Life, 100 grams @ 77°F (25°C)	75 min
Specific Gravity @ 77°F (25°C)	.65
Cure Schedule	3-5 days @ 77°F

POPULAR FOR USE IN:

COMPOSITES

AEROSPACE

PHYSICAL PROPERTIES, TYPICAL CURED PERFORMANCE

PROPERTY	TEST METHOD	UNIT	VALUE
Al-Al Lap Shear		psi	2200
DSC Tg	ASTM E1356	°C	187
Compressive Strength		psi	9000

USES & APPLICATIONS

Designed for edge filling and potting applications.

SPECIALTY PACKAGING AND DISPENSING

Material is suitable for bulk packaging.

Case Study: Edge Filling with High Temperature Stability

A satellite OEM had two materials approved for their satellite panel edge filling, and needed a custom modification to combine the favorable properties of each product into one solution. The first product provided high-temperature performance but production processing was very difficult. The second product provided low viscosity for easier production use, but lacked the desired temperature performance.

After a thorough design and development process, RF 1164 A/B was created as a low density syntactic epoxy system to provide the flow required while maintaining a very high temperature stability. RF 1164 A/B utilizes a room temperature set up and developed a higher temperature performance during the curing of the composite face sheets, acting as a post cure for RF 1164. RF 1164 provides a Tg of 187°C, .56 specific gravity, compression values of 9000 psi, and aluminum lap shear strength of 2200 psi. The product solved the customer's production processing issues and provided the necessary performance properties for their satellite panel applications.

LEARN MORE: Download the TDS or SDS from our TDS SDS Library »