

AVIMID® R

Thermoset Polyimide

Cytec Industries Inc.

Message:

AVIMID® R is a high temperature, 581°F (305°C) Tg, thermoset polyimide resin with good 500°F (260°C) wet and 550°F (288°C) dry service capability. AVIMID R has outstanding thermal oxidative stability, excellent resistance to aircraft fluids and is tough, showing little micro-cracking during severe thermal cycling.

AVIMID R was formulated for prepreg autoclave vacuum bag processing but can be successfully compression molded both as a prepreg and in dry forms as neat resin or chopped-fiber molding compound. Unidirectional tape and woven prepreg of AMIMID R will retain tack and drape for 14 days at 70°F (21°C).

Standard autoclave or compression molding processes, to a final temperature of 680°F (360°C) will result in full Tg development/cure, with no need for any post-cure treatment. AVIMID R can be solution impregnated on a variety of fibers and fabrics.

Suggested Applications:

Jet engine components

General Information		
Features	Autoclavable	
	Good Crack Resistance	
	Good Thermal Aging Resistance	
	Good Toughness	
	Heat Cure	
	High Heat Resistance	
	Oxidation Resistant	
Uses	Aerospace Applications	
	Structural Parts	
Forms	Fabric	
	Fiber	
Processing Method	Compression Molding	
	Vacuum Forming	
Mechanical	Nominal Value	Unit
Tensile Modulus ¹	3590	MPa
Tensile Strength ²	117	MPa
Tensile Elongation (Break)	3.3	%
Thermal	Nominal Value	Unit
Glass Transition Temperature		
-- ³	305	°C
-- ⁴	487	°C
NOTE		
1.	Neat resin	

2.	Neat resin
3.	DMA, Dry
4.	DMA, Wet

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