

VTEC™ GF63

Thermoset Polyimide

RBI, Inc.

Message:

- High temperature resistance
- Strength at elevated temperature
- Superior mechanical properties
- High compressive strength and creep resistance
- Excellent chemical resistance
- Superior resistance to plasma etching
- Outstanding electrical properties
- Wear resistance, low friction, self-lubricating
- Non-abrasive to mating parts
- Extremely low moisture absorption
- Radiation resistant
- Compliant without deforming under load and temperature
- Very low outgassing
- Zero metal and mineral extractables
- Extremely dimensionally stable
- Equal CTE in X, Y and Z directions

General Information			
Features	Good Chemical Resistance		
	Good Compressive Strength		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Wear Resistance		
	High Heat Resistance		
	High Temperature Strength		
	Low Extractables		
	Low Friction		
	Low Moisture Absorption		
	Low to No Outgassing		
	Radiation (Gamma) Resistant		
	Self Lubricating		
Forms	Customizable Forms		
	Rod		
	Sheet		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm ³	ASTM D792

Water Absorption (Saturation, 24°C)	< 0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	75		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
24°C	75.8	MPa	
204°C	75.8	MPa	
246°C	82.7	MPa	
Flexural Modulus			ASTM D790
24°C	15900	MPa	
204°C	14500	MPa	
246°C	15200	MPa	
Flexural Strength			ASTM D790
24°C	207	MPa	
204°C	214	MPa	
246°C	221	MPa	
Compressive Strength - Open-Hole (246°C) ¹	Passed		ASTM D648
Flammability			
-- ²	Non-burning, No drip, No glowing combustion		
843°C	Non-burning, No drip, No glowing combustion		
Dimensional Stability, Shrinkage - 24 hrs (246°C)	0.0	%	
Thermal Gravimetric Analysis (500°C)	No recordable weight loss		
Thermal-oxidative Deterioration (182°C) ³	0.20	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (24°C)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	270	°C	
CLTE - Flow (75°C)	1.4E-5	cm/cm/°C	ASTM D696
NOTE			
1.	Hot, Wet		
2.	1000 BTU cu. ft		
3.	100 hrs, 60 psi loss		

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