

PerFORM

Durable, Stiff Resin

Ideal for the production of high heat resistant parts

PerFORM produces off-white ceramic composites; strong and stiff, with excellent high heat resistance.



Benefits

- High thermal resistance
- Supreme sidewall quality
- Excellent detail resolution

Applications

- Tooling
- Wind Tunnel Testing
- High Temperature Testing
- Electrical Casings
- Automotive Housings



Physical Properties

Colour	Off-White
Type	Ceramic Filled

Mechanical Properties

	UV Postcure	Thermal Postcure	TEST/ISO
Hardness Shore A/D	94	93	ATSM D2240
Flexural Strength (MPa)	120	146	ATSM D790
Flexural Modulus (MPa)	10,000	9,030	
Tensile Strength (MPa)	68	80	ATSM D638
Tensile Modulus (MPa)	10,500	9,800	
Elongation Break (%)	1.1	1.2	
Impact Strength (J/m)	17	20	ATSM D256A
Density (g/cm ³)	1.61	1.61	

Thermal & Specific Properties

	UV Postcure	Thermal Postcure	TEST/ISO
Glass Transition Temperature Tg (°C)	72	81	DMA,E''
Heat Deflection Temperature (°C)			
@ 66 PSI	132	268	ATSM D648
@ 264 PSI	82	119	
Co-efficient of Thermal Expansion (μ/m°C)			
TMA (T<Tg, -40 - 0°C)	29.9	26.4	ATSM E831-05
TMA (T<Tg, 0 - 50°C)	49.4	34.3	
TMA (T<Tg, 50 - 100°C)	79.1	59.9	
TMA (T<Tg, 100 - 150°C)	80.9	94.7	

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Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. Performance characteristics of these products may vary according to product application, operating conditions or with end use.

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