

Accura® HPC

A high-speed, high-rigidity engineered nanocomposite

Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa PSI)	ASTM D638	66-89	9570-12910
Tensile Modulus (MPa KSI)	ASTM D638	9000-9700	1305-1407
Elongation at Break	ASTM D638	0.8-1.9 %	0.8-1.9 %
Flexural Strength (MPa PSI)	ASTM D790	137-157	19870-22770
Flexural Modulus (MPa KSI)	ASTM D790	8700-10200	1262-1479
Izod impact notched (J/m ft-lbs/in)	ASTM D256	14-17	0.3
Heat Deflection Temperature UV Postcure only UV Postcure only UV + Thermal Postcure (120°C) UV + Thermal Postcure (120°C)	ASTM D 648 @ 66 PSI @ 264 PSI @ 66 PSI @ 264 PSI	73 °C 62 °C 250 °C 87 °C	63 °F 144 °F 482 °F 189 °F
Poissons Ratio	ASTM D638	~0.32	~0.32
Coefficient of Thermal Expansion 50-100 °C (ppm/°K ppm/°F) 100-150 °C (ppm/°K ppm/°F)	ASTM E 831-93	64.2 81.7	35.7 45.4
Dielectric Constant at 1MHz	ASTM D150	4.2	4.2
Solid Density (g/cm³ lbs/in³)		1.61	0.058
Shore D		80	

High Performance Composite

Features

- · Produces extremely strong and rigid parts
- High-production speeds
- Smooth easy-to-finish surfaces
- High temperature resistance
- Lowest viscosity

Applications

- Automotive and aerospace wind tunnel models
- Abrasion-resistant structures
- Jigs, fixtures and tooling applications
- Electrically insulating enclosures

Liquid Material

MEASUREMENT	CONDITION	
Viscosity	@ 30 °C (86 °F)	1000 cps
Penetration Depth (Dp)		5.0 mils
Critical Exposure (Ec)		5.9 mJ/cm ²
Color		White
Liquid Density		1.60 g/cm³



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Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, or with end use. 3D Systems makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

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