

Technical Data Sheet

Bluestone Material

For the SLA process

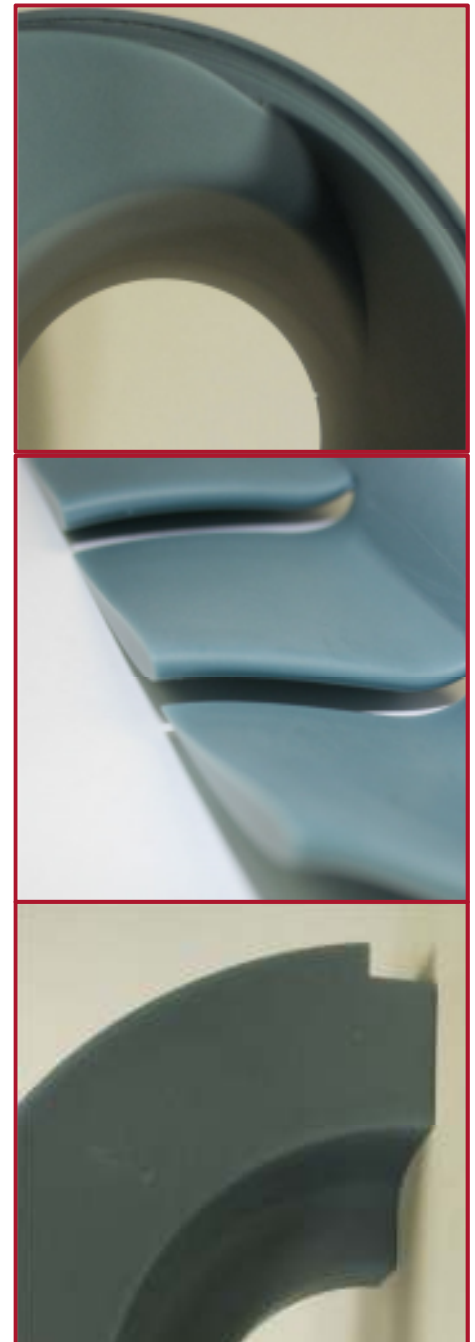


Features, benefits and applications

- Exceptional stiffness and temperature resistance (up to 250°)
- Highly accurate
- Ideal for wind-tunnel testing for motorsport industries
- Great for water-handling products such as impellers

Machines

- Available on iPro 8000 machines



Post-Cured Material					
Measurement	Condition	Metric		Imperial	
		Low	High	Low	High
Tensile Strength (MPa/PSI)	ASTM D 638	66	68	6900	9800
Tensile Modulus (MPa/KSI)	ASTM D 638	7600	11700	1100	1700
Elongation at Break	ASTM D 638	1.4%	2.4%	1.4%	2.4%
Flexural Strength (MPa/PSI)	ASTM D 790	124	154	1800	2230
Flexural Modulus (MPa/KSI)	ASTM D 790	8300	9800	1200	1417
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	13	17	0.24	0.32
Heat Deflection Temperature	ASTM D 648				
UV Postcure only	@ 66 PSI	65-66°C		149-151°F	
UV Postcure only	@ 264 PSI	65°C		149°F	
UV + Thermal Postcure (120°C)	@ 66 PSI	267-284°C		513-543°F	
Coefficient of Thermal Expansion (CTE)	ASTM E 831-93 TMA (T<Tg, 0-200°C) TMA (T<Tg, 90-150°C)	33-44(x10-6m/m°C) 81-98(x10-6m/m°C)		18.3 - 24.4(µin/in°F) 45 - 54.4(µin/in°F)	
Glass Transition (Tg)	DMA, E'	78-81°C		172-178°F	
Shore D		92		92	
Liquid Material					
Measurement	Condition	Value			
Viscosity	@ 30°C (86°F)	1200-1800 cps			
Penetration Depth (Dp)		4.1 mils			
Critical Exposure (Ec)		6.9 mJ/cm²			
Colour		Blue			
Solid Density	@ 25°C (77°F)	1.78 g/cm³ at 25°C			
Liquid Density	@ 25°C (77°F)	1.70 g/cm³ at 25°C			

Got a question? Need more technical data?

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