

NeXt

Extremely Durable Resin

Ideal for production of tough complex parts

With ground-breaking SLA durability, NeXT almost exactly replicates finished white thermoplastics, and is ideal for a variety of applications.

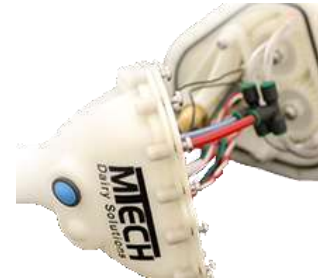


Benefits

- Exceptionally strong and durable
- Look and feel to match finished thermoplastics
- Excellent for functional testing and low-volume prototypes

Applications

- Snap-fit designs
- Impellers
- Duct work
- Connectors and Electronic Covers
- Automotive Housings and Dashboard Assemblies
- Packaging and Sporting goods



Physical Properties

Colour	White
Type	Simulates Tough Functional Thermoplastic

Mechanical Properties

		TEST/ISO
Hardness (Shore D)	82	ATSM D2240
Flexural Strength (MPa)	67.8 - 70.8	ATSM D790
Flexural Modulus (MPa)	2,415 - 2,525	
Tensile Strength (MPa)	41.1 - 43.3	ATSM D638
Tensile Modulus (MPa)	2,370 - 2,490	
Elongation Break (%)	8 - 10	
Impact Strength (J/cm)	0.47 - 0.52	ATSM D256
Density (g/cm ³)	1.13	

Thermal & Specific Properties

Glass Transition Temperature Tg (°C)	43 - 47	ATSM E831-05
Heat Deflection Temperature (°C)		ATSM D648
@ 66 PSI	55 - 57	
@ 264 PSI	48 - 51	
Co-efficient of Thermal Expansion (µ/m°C)		ATSM E831-05
TMA (T<Tg, -40 - 0°C)	71.5 - 74.3	
TMA (T<Tg, 0 - 50°C)	106.5 - 114.5	
TMA (T<Tg, 50 - 100°C)	168.6 - 176.4	
TMA (T<Tg, 100 - 150°C)	168.8 - 176.4	

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