

Technical Data Sheet

EtroX[®] I CM natural - ASTM

PI

Typical characteristics

- Heat resistant
- High mechanical strength
- Low creep tendency
- High impact resistance
- High stiffness
- Good dimensional stability

Typical industries

- Semiconductor Industry
- Electronics
- Aerospace
- Semiconductor Wafer Handling
- Semiconductor High and low temperature
- Semiconductor Back-End applications
- Semiconductor Dicing

	Test method	Unit	Guideline value
General properties			
Moisture	ASTM D6980	%	0.96
Water Absorption (after 48 hrs)	ASTM D570		0.8
Mechanical properties			
Static Coefficient of Friction	ASTM D1894		0.278
Tensile Strength	ASTM D638	psi	20321
Tensile Modulus	ASTM D638	ksi	499
Elongation at Break	ASTM D638	%	14.2
Flexural Strength	ASTM D790	psi	23967
Flexural Modulus	ASTM D790	ksi	561
Thermal properties			
Coefficient of thermal expansion	ASTM E831 via TMA from -40°C to 149°C		41
Electrical properties			
Dielectric constant @ 1MHz	ASTM D150		3.3
Dielectric constant @ 10GHz	IEC 61189-2-721		3.4
Dielectric constant @ 40GHz	IEC 61189-2-721		3.3
Dielectric constant @ 100GHz	IEC 61189-2-721		3.2

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