

## Technical Data Sheet

# EtroX<sup>®</sup> I CM UHT natural - ASTM

PI

### Typical characteristics

- Good thermo-oxidative stability (use up to 450°C)
- high dimensional stability under heat
- Heat resistant
- Low creep tendency
- Low moisture absorption

### Typical industries

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

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1.43
Water absorption	DIN EN ISO 62 (23°C / 24h)	%	0.06
Water absorption	DIN EN ISO 62 (23°C / 48h)	%	0.1
Water absorption	DIN EN ISO 62 (23°C / 3 Weeks)	%	0.4
<b>Mechanical properties</b>			
Elongation at break	DIN EN ISO 527	%	4
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4800
Tensile strength	DIN EN ISO 527	MPa	142
Impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	40
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	3
Shore hardness	DIN EN ISO 868	scale D	90
Elastic modulus of compression	DIN EN ISO 604	MPa	4000
<b>Thermal properties</b>			
Glass transition temperature	ISO 11357-3	°C	270
Temp. of deflection under load, 1.80 MPa	ISO 75-1/-2	°C	265
Temp. of deflection under load, 0.45 MPa	ISO 75-1/-2	°C	304
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>11</sup>

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	Test method	Unit	Guideline value
Dielectric constant @ 1MHz	DIN EN IEC 62631-2-1		3.3



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Print: 20/04/2026 • Release: 08/05/2024 • Version: 2.0  
PIM-ID: 753712 • PIM-Code: 46-27-19.11.11.12.12-11.8.11.15,5  
Company-IDs: 23070

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