Technical Data Sheet

EtroX® I CM UHT natural - ASTM

Typical characteristics

- Excellent thermo-oxidative stability (use up to 300°C)
- high dimensional stability under heat
- Extremely high heat resistance
- Very low creep tendency
- Nearly no moisture absorption

Typical industries

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

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	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
Mechanical properties			
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^2	40
Notched impact strength	DIN EN ISO 179	kJ / m^2	3
Shore hardness	DIN EN ISO 868	scale D	90
Elastic modulus of compression	DIN EN ISO 604	MPa	4000
Thermal properties			
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
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{11}$

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

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