

Technický datový list

EtroX[®] I CM UHT přírodní

PI

Vlastnosti produktu

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

Typické oblasti použití

- Elektronika
- Semiconductor Back-End applications
- Semiconductor Wafer Handling
- Semiconductor High and low temperature
- Semiconductor Dicing
- Výroba vozidel
- Stavba strojů a zařízení

	Testovací metoda	Jednotka	Orientační hodnota
Obecné vlastnosti			
Hustota	DIN EN ISO 1183-1	g / cm ³	1,43
Absorpce vody	DIN EN ISO 62 (23°C / 24h)	%	0,06
Absorpce vody	DIN EN ISO 62 (23°C / 48h)	%	0,1
Absorpce vody	DIN EN ISO 62 (23°C / 3 týdny)	%	0,4
Mechanické vlastnosti			
Prodloužení při přetřžení	DIN EN ISO 527	%	4
Modul pružnosti v tahu	DIN EN ISO 527	MPa	4800
Pevnost v tahu	DIN EN ISO 527	MPa	142
Rázová pevnost	DIN EN ISO 179	kJ / m ²	40
Vrubová houževnatost	DIN EN ISO 179	kJ / m ²	3
Tvrdost Shore	DIN EN ISO 868	scale D	90
Modul pružnosti v ohybu	ASTM D790	ksi	750
Modul pružnosti v tlaku	DIN EN ISO 604	MPa	4000
Tepelné vlastnosti			
Teplota přechodu do skelného stavu	ISO 11357-3	°C	270
Provozní teplota krátkodobá (max.)	Průměr	°C	450

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	Testovací metoda	Jednotka	Orientační hodnota
Teplota průhybu při zatížení, 1,80 MPa	ISO 75-1/-2	°C	265
Teplota průhybu při zatížení, 0,45 MPa	ISO 75-1/-2	°C	304
Elektrické vlastnosti			
Objemový odpor	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$>10^{11}$
Relativní permitivita @ 1 MHz	DIN EN IEC 62631-2-1		3,3

The short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected. The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to a minimum degree of impact stress. The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular black) or saturated material, there may be clear differences in the electrical properties. The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

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