

## Technický datový list

EtroX<sup>®</sup> V přírodní

PEEK

## Vlastnosti produktu

- Good machinability
- Low burring
- Low moisture absorption
- Good dimensional stability

## Typické oblasti použití

- Technika čistých prostorů
- Elektronika
- Stavba strojů a zařízení
- Polovodičový průmysl
- Semiconductor Front-End applications
- Semiconductor Back-End applications
- Semiconductor High and low temperature

	Testovací metoda	Jednotka	Orientační hodnota
<b>Obecné vlastnosti</b>			
Hustota	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,62
Absorpce vody	DIN EN ISO 62	%	0,15
<b>Mechanické vlastnosti</b>			
Mez kluzu	DIN EN ISO 527	MPa	105
Prodloužení při přetržení	DIN EN ISO 527	%	2,5
Modul pružnosti v tahu	DIN EN ISO 527	MPa	5300
Vrubová houževnatost	ISO 179-1/1eA	kJ / m <sup>2</sup>	1,0
Tvrdost Shore	DIN EN ISO 868	scale D	88
Tvrdost kuličkového vtisku	DIN EN ISO 2039-1	MPa	275
<b>Tepelné vlastnosti</b>			
Teplota tání	ISO 11357-3	°C	341
Tepelná vodivost	ISO 22007-4	W / (m * K)	0,44
Provozní teplota dlouhodobá	Průměr	°C	-30 ... 250
Provozní teplota krátkodobá (max.)	Průměr	°C	310
<b>Elektrické vlastnosti</b>			

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	Testovací metoda	Jednotka	Orientační hodnota
Objemový odpor	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$>10^{12}$
Povrchový odpor	DIN EN 62631-3-2	$\Omega$	$>10^{12}$
Srovnávací sledovací index	IEC 60112		150
Dielektrická pevnost	IEC 60243	kV / mm	35
Relativní permitivita @ 50 Hz	DIN EN IEC 62631-2-1		4,9
Relativní permitivita @ 1 MHz	DIN EN IEC 62631-2-1		4,9
Dielektrický disipační faktor (50 Hz)	DIN EN IEC 62631-2-1		0,04
Dielektrický disipační faktor (1 MHz)	DIN EN IEC 62631-2-1		0,0007

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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