



TECHNICAL DATA - NYLON 66 BLACK/GREY + MOS2

MATERIAL PROPERTIES	STANDARD	UNIT	VALUE
DENSITY WATER ABSORPTION (@23 o C / 50%RH)	ISO 1183 ISO 62	g/cm³ %	1.15 2.8
MECHANICAL TENSILE STRESS AT BREAK MODULUS OF ELASTICITY IMPACT STRENGTH NOTCHED IMPACT STRENGTH BALL INDENTATION HARDNESS ROCKWELL HARDNESS COEFFICIENT OF FRICTION (DRY vs STEEL)	ISO 527 ISO 527 DIN 53453 DIN 53453 ISO2039-1 ISO2039-2	MPa MPa (kJ/m ₂) (kJ/m ₂) (N/mm ₂)	90 3400 NB >2 180 M83 0.15-0.35
THERMAL MELTING POINT COEFFICIENT OF LINEAR THERMAL EXPANSION (23-60 o C) MAX WORK TEMP MAX BRIEF TEMP MIN TEMP FLAMMABILITY OXYGEN INDEX UL94 (3MM/6MM)	DIN5376 ISO 11359 4589	o C m/(m-K) 80*10-6 o C o C o C %	260 95 170 -30 26 HB/V2
ELECTRICAL			
DIELECTRIC CONSTANT VOLUME RESISTIVITY SURFACE RESISTIVITY TRACKING RESISTANCE DIELECTRIC STRENGTH	DIN 53483 DIN 53482 DIN 53482 DIN 53480 DIN 53481	@50HZ DRY Ohm*cm Ohm kV/mm	3.8 10 ₁₅ 10 ₁₄ 600 26
PHYSIOLOGICAL			
FOOD CONFORMITY TO EU FDA		NO NO	

The following applies to Polyamides Under the influence of moisture absorption, the mechanical properties change. The material becomes tougher and more resistant to impact, the modulus of elasticity declines. Depending on the environmental atmosphere, the temperature and the period of moisture absorption, only the surface layer is affected by alterations of property to a certain depth. On thick walled parts, the centre area remains unaffected.

The short-term application temperature only applies to low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal aging 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 the case of thick walled parts, only the surface layer is affected by oxidation from higher temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case the centre area of the material remains unaffected.

The minimum application temperature is basically influenced by possible stress factors such as shock and or impact 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 a clear difference in the electrical properties.

All information given is in good faith and without warranty

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