

Technical Data



Material Type

PA6 Filled

Trade Name

NM75HGF30

Production Process

NylonMold
PA Casting

Features

Short glass fibre
reinforced

Condition of test specimen

dry/cond.

Mechanical Properties

Measurement

Method/Condition

Specific Gravity	ISO 1183/ASTM D792	1.35 g/cm ³
Tensile Modulus	ISO 527/ASTM D638	7500 MPa/6300 MPa
Tensile Strength	ISO 527-84/ASTM D638	105 MPa/95 MPa
Flexural Modulus	ISO178-93/ASTM D790	
Flexural Strength	ISO 178-93/ASTM D790	
Elongation at break	IS=527/ASTM D638	2%/3%
Izod notched impact strength at 23 °C	ISO 180/1A	
Charpy impact strength	ISO 179-1/1eU	25.4 kJ/m ² /26.2 kJ/m ²
Impact strength (notched)	ISO 179-1/1eA	3.8 kJ/m ² /3.9 kJ/m ²
Hardness, Shore D	ISO 868-85/ASTM D2240	86

Thermal properties

Measurement

Method/Condition

Thermal conductivity	DIN 52 612/ASTM E1225	
Linear thermal expansion	ISO 11359	
Melting temp. or glass transition temp.	ISO 11357	218 °C
Temp. of deflection under load (1,8 MPa)	ISO 75 HDT/A (1,8 MPa)	202 °C/205 °C
Temp. of deflection under load (0,45 MPa)	ISO 75 HDT/A (0,45 MPa)	212 °C/212 °C
Short time use temperature		180 °C
Continous use temperature		150-170 °C
Minimal use temperature		

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Electrical properties

Measurement

Method/Condition

Relative permittivity at 1 MHz

IEC 60250

Dissipation factor at 1 MHz

IEC 60250

Electric strength

IEC 60243-1

Thickness for electric strength

Volume resistivity

IEC 60093

Surface resistivity

IEC 60093

Comparative tracking index

IEC 60112

Other properties

Measurement

Method/Condition

Water absorption

ISO 62

Transparency (opaque/translucent/clear)

Colouring

black

The figures in this datasheet are guide values. The values are affected by processing conditions, modifications, additives and environmental conditions and they do not release you from the obligation to check the validity and to undertake test on your own. The information given is based on our state of knowledge. The material data sheet is not to be constructed as guaranteeing specific properties and the data can not be used to deduce the suitability for a particular application.

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