

## TECATHERM 66 GF 40

### 1. Name and Compound

TECATHERM 66 GF 40  
 Polyamide 66 with 40±2,5% (weight-%) glass fibres, black  
 Designation: Thermoplastic ISO 1874-PA 66-HI,EC2L,,GF40,  
 Density: 1,45±0,03 g/cm<sup>3</sup>

### 2. Mechanical Properties

dry as moulded, mean values at 23°C			injection moulded samples *
Tensile strength	ISO 527	MPa	≥ 125
Modulus of elasticity in tension	ISO 527	MPa	≥ 8000
Tensile strain at break	ISO 527	%	≥ 2
Impact strength	ISO 179	kJ/m <sup>2</sup>	≥ 28

\* For profiles, it is not possible to give values valid for all sizes, because the properties are also dependent on the geometry of the profiles (thickness, height, etc.) and on the orientation of the glass fibres!

### 3. Thermal Properties

Thermal conductivity, design thermal value $\lambda_{90/90}$ (in transverse direction)	DIN EN ISO 10456	0,37 W/m·K
Coefficient of linear thermal expansion (dry and in longitudinal direction)		2,5 - 3 * 10 <sup>-5</sup> /K
Melting point	ISO 3146	> 250° C
Maximum service temperature	at 5 000 h at 20 000 h	115° C 105° C
Temperature of deflection under load (1,8 MPa)	DIN EN ISO 75	≥ 230° C

These details are based on our current knowledge. Therefore it is not intended to assure legally binding or to guarantee the nature of the products, the trade capability of the products and the suitability for a certain use. We reserve the right of technical alterations.