

Durethan BCF30XH3.0 000000

PA6-(GF+CF)30

LANXESS Deutschland GmbH

PA 6, 30 % glass fibers/carbon fibers, injection molding, heat-aging stabilized, improved electrical conductivity

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13500 / 6800	MPa	ISO 527
Stress at break	190 / 105	MPa	ISO 527
Strain at break	3 / 5	%	ISO 527
Charpy impact strength (+23 °C)	80 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	65 / 65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23 °C)	11 / 20	kJ/m ²	ISO 179/1eA
Puncture energy, +23 °C	2.4 / -	J	ISO 6603-2
Puncture energy, -30 °C	1.7 / -	J	ISO 6603-2

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10 °C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	219 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	2000 / -	Ohm*m	IEC 62631-3-1

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1330 / -	kg/m ³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics
Processing

Injection Molding

Special Characteristics

Electrically conductive, Heat aging stabilized

Delivery form

Pellets

Injection Molding
PREPROCESSING

Residual moisture content: 0.03-0.12 %

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer: 2-6 h

PROCESSING

Melt temperature (Tmin - Tmax): 270-290 °C

Mold temperature: 80-120 °C

Disclaimer

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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