

Durethan BG30XFN01 000000

PA6-(GF+GB)30 FR

LANXESS Deutschland GmbH

PA 6, 30 % glass fibers/glass spheres, injection molding, halogen free flame retardant, improved flowability, improved surface finish, heat-aging stabilized

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	27 / *	cm ³ /10min	ISO 1133
Temperature	260 / *	°C	-
Load	2.16 / *	kg	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	7400 / 3500	MPa	ISO 527
Stress at break	85 / 50	MPa	ISO 527
Strain at break	3 / 7	%	ISO 527
Charpy impact strength (+23°C)	40 / 45	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	35 / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	- / 10	kJ/m ²	ISO 179/1eA
Flexural modulus (23°C)	7000 / 3700	MPa	ISO 178
Izod Impact notched, 23°C	10 / 10	kJ/m ²	ISO 180/1A
Izod Impact notched	10 / 10	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Izod Impact unnotched, 23°C	35 / 38	kJ/m ²	ISO 180/1U

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	214 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Burning behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.8 / *	mm	-
Burning behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	2.0 / *	mm	-
Oxygen index	34.6 / *	%	ISO 4589-1/-2

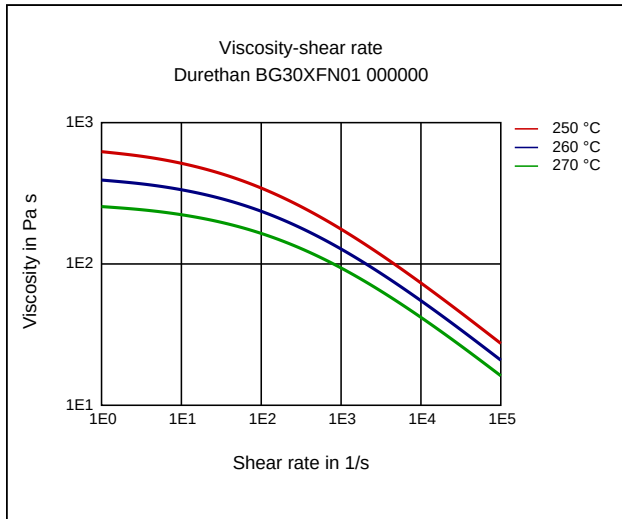
Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Electric strength	32 / -	kV/mm	IEC 60243-1
Comparative tracking index	575 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	5.3 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1390 / -	kg/m ³	ISO 1183
Bulk density	700	kg/m ³	-

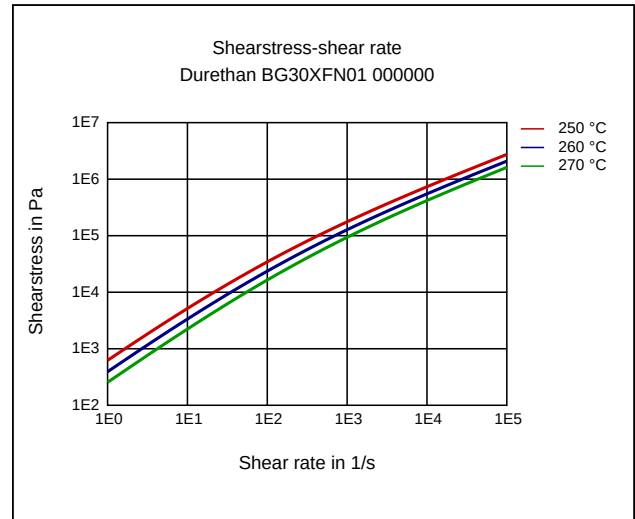
Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Diagrams

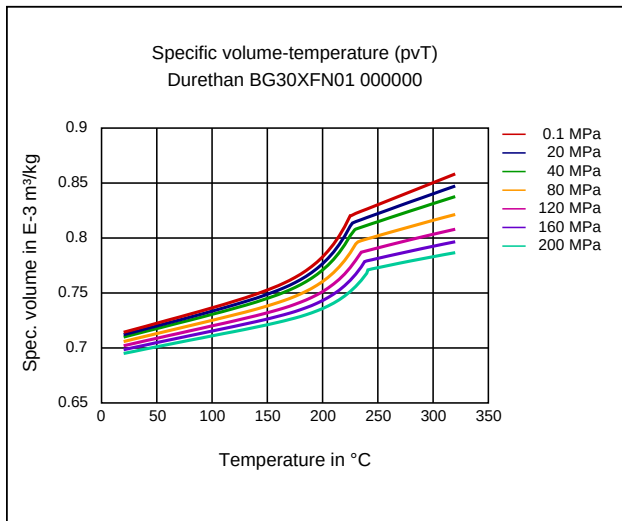
Viscosity-shear rate



Shearstress-shear rate



Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Injection Molding

PREPROCESSING

Residual moisture content: 0.03-0.07 %

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer: 2-6 h

PROCESSING

Melt temperature (Tmin - Tmax): 250-270 °C

Special Characteristics

Flame retardant, Halogen-free, Heat aging stabilized

Mold temperature: 80-100 °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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