

Durethan B30SF30 000000

PA6 FR

LANXESS Deutschland GmbH

PA 6, non-reinforced, injection molding, flame retardant, wärmostabilisiert

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3600 / -	MPa	ISO 527
Yield stress	70 / -	MPa	ISO 527
Yield strain	3.7 / -	%	ISO 527
Nominal strain at break	9 / -	%	ISO 527
Charpy impact strength (+23°C)	150 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	130 / -	kJ/m ²	ISO 179/1eU
Flexural modulus (23°C)	3200 / -	MPa	ISO 178
Izod Impact notched, 23°C	10 / -	kJ/m ²	ISO 180/1A
Izod Impact notched	10 / -	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Izod Impact unnotched, 23°C	120 / -	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)	70 / *	°C	ISO 75-1/-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	0.4 / *	mm	-
Burning behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	2.0 / *	mm	-

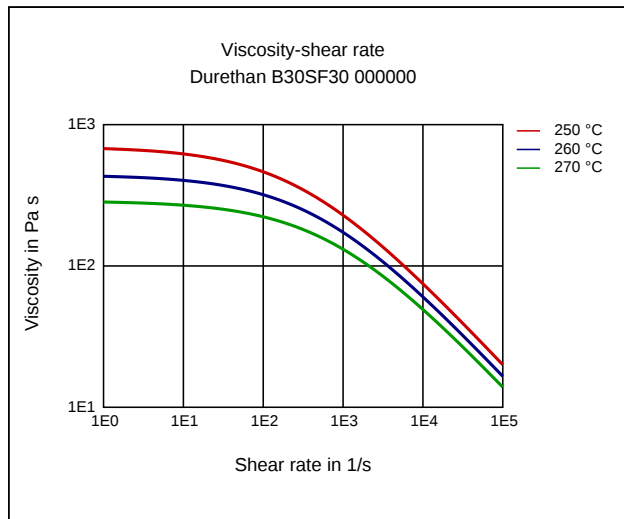
Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	300 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1350 / -	kg/m ³	ISO 1183

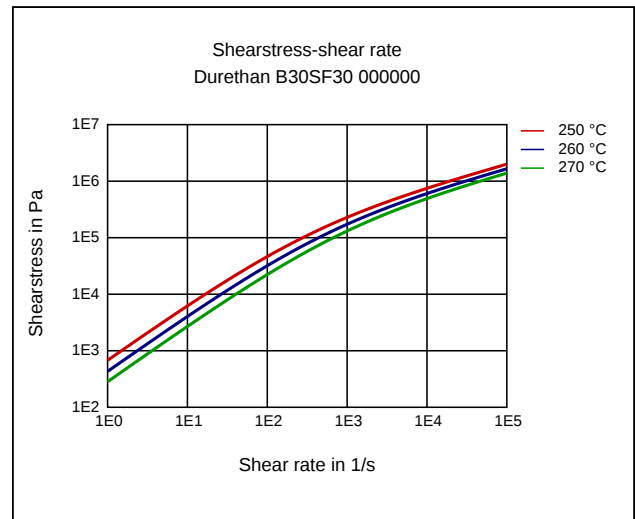
Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant, Heat aging stabilized

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): 250-270 °C

admissible residence time at Tmax: <5 min

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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