

Durethan B40F 000000

PA6

LANXESS Deutschland GmbH

PA 6, non-reinforced, extrusion, high viscosity, no additives, suitable for food-contact

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
Load	2.16 / *	kg	-

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2800 / 800	MPa	ISO 527
Yield stress	75 / 35	MPa	ISO 527
Yield strain	4 / 25	%	ISO 527
Nominal strain at break	20 / >50	%	ISO 527
Charpy impact strength (+23°C)	no break / no break	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	no break / no break	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 50	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	5 / -	kJ/m²	ISO 179/1eA

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)	50 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	150 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	80 / *	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.	HB / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Burning behav. at thickness h	HB / *	class	UL 94
Thickness tested	0.8 / *	mm	-
Oxygen index	24 / *	%	ISO 4589-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.9 / 18	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.5 / 4	-	IEC 62631-2-1
Volume resistivity	1E12 / 1E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	30 / 35	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	10 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	225 / *	cm³/g	ISO 307, 1157, 1628

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	40	°C	ISO 294

Characteristics

Processing

Film Extrusion, Sheet Extrusion, Other Extrusion

Certifications

Food approval

Delivery form

Pellets

Injection Molding

PREPROCESSING

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer: 2-6 h

PROCESSING

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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