

Durethan T40ZS 000000

PA*

LANXESS Deutschland GmbH

PA 6I, non-reinforced, injection molding, extrusion

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3300 / 3000	MPa	ISO 527
Charpy impact strength (+23 °C)	no break / no break	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	no break / no break	kJ/m ²	ISO 179/1eU
Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	105 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	115 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	UL 94
Thickness tested	1.5 / *	mm	-
Burning behav. at thickness h	V-2 / *	class	UL 94
Thickness tested	0.8 / *	mm	-
Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	4.3 / 4.6	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.8 / 4	-	IEC 62631-2-1
Dissipation factor, 100Hz	400 / 480	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	900 / 1100	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E15	Ohm	IEC 62631-3-2
Electric strength	25 / 28	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m ³	ISO 1183
Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	107 / *	cm ³ /g	ISO 307, 1157, 1628
Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Characteristics
Processing

Injection Molding

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): 260-280 °C

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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