

Durethan DPAKV30FN00 000000 DUS013
PA66-GF30 FR

LANXESS Deutschland GmbH

PA 66, 30 % glass fibers, injection molding, halogen free flame retardant, optimized for laser marking (1064nm)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10500 / 6500	MPa	ISO 527
Stress at break	120 / 75	MPa	ISO 527
Strain at break	2.5 / 5.1	%	ISO 527

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	224 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250 / *	°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	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.9 / 8.7	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.7 / 4.1	-	IEC 62631-2-1
Dissipation factor, 100Hz	80 / 1300	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	120 / 700	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / 5E10	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 4E14	Ohm	IEC 62631-3-2
Electric strength	38.5 / 34.8	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1430 / -	kg/m³	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	135 / *	cm³/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

Special Characteristics

Flame retardant, Halogen-free

Delivery form

Pellets

Features

Laser Markable

Injection Molding
PREPROCESSING

Max. water content: 0.03-0.07 %

Drying temperature: 80 °C

Drying time: Dry air dryer 2-6 h (will depend on the initial moisture content)

PROCESSING

Melt temperature: 265-285 °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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