

**Durethan DPA30SFN30**

PA66

LANXESS Deutschland GmbH

PA 66, non-reinforced, injection moulding, halogen free flame retardant, improved flowability,

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	43 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	270 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	3700 / 1500	MPa	ISO 527
Yield stress	90 / 50	MPa	ISO 527
Yield strain	4.1 / 19	%	ISO 527
Nominal strain at break	7.8 / >50	%	ISO 527
Charpy impact strength (+23°C)	95 / no break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	90 / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 7	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / 4	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature (10°C/min)	265 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	84 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	212 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	UL 94
Thickness tested	0.4 / *	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 100Hz	4 / 8	-	IEC 62631-2-1
Relative permittivity, 1MHz	4 / 4	-	IEC 62631-2-1
Dissipation factor, 100Hz	120 / 2000	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	190 / 550	E-4	IEC 62631-2-1
Volume resistivity	1E12 / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Electric strength	30 / 25	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1170 / -	kg/m <sup>3</sup>	ISO 1183

Material Specific Properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Viscosity number	145 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

**Characteristics**
**Processing**

Injection Molding

**Additives**

Plasticizer

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant, Light stabilized or stable to light

**Injection Molding**

PREPROCESSING

Max. Water content: 0.1 %

Drying temperature: 80 °C

Drying time:  
Dry air dryer 2-20 h (will depend on the initial moisture content)

#### PROCESSING

Melt temperature: 260 - 270 °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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