



Document	ISO Datasheet
Description	PP
Grade	DAFNETHERM PP BN16
Code	
Application	Injection moulding

Mineral filled polypropylene homopolymer. Thermally conductive. Electrical insulating.

Properties	Method	Unit	Value
<b>Physical</b>			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1,65-1,75
Mould Shrinkage (%)	INTERNAL	%	0,4-0,8
<b>Thermal</b>			
Vicat B50	ISO 306	°C	130
Thermal conductivity – through-plane	ISO 22007-2	W/(m*K)	9
Thermal conductivity – in-plane	ISO 22007-2	W/(m*K)	1,4
<b>Mechanical at 23 °C</b>			
Tensile Modulus (23°C - 2 mm/min)	ISO 527-2	MPa	8500
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	20
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	0,5
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	1
<b>Flammability</b>			
Flammability class (1,6 mm)	UL94		HB
<b>Electrical</b>			
Surface resistivity	IEC 60093	Ohm	>1E12
<b>Processing Conditions</b>			
Melt Temperature Range	ISO 294	°C	200-250
Mold Temperature Range	ISO 294	°C	60-80
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	80-90
Drying Time		Hour	3
<b>Regulations compliance</b>			
RoHS compliance status:	COMPLIANT		

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EN71:

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UL listed file n°:

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Water contact approvals.

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Food contact status:

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§ Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 4.0 x 10.0 x 170 mm sample.

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