

# MAJORIS DG300

Polypropylene

AD majoris

## Message:

MAJORIS DG300 is a polypropylene reinforced with glass fibres intended for injection moulding for outstanding properties for food contact regulations. This quality is also achieving low taste and odour high performances.

MAJORIS DG300 has high rigidity and impact strength, good dimensional stability and good creep resistancy also at high temperatures. This quality is compatible with microwaves.

MAJORIS DG300 is available in natural and other colours can be provided on request.

MAJORIS DG300 fulfils RoHS compliance and is Yellow card listed.

## APPLICATIONS

It can be used on applications requiring outstanding performances such as:

Kitchenwares

Cutlery

Cook's tolls and Kitchen mills

Kitchen cookers

Element pumps for water industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Rigidity, high		
	Impact resistance, high		
	Recyclable materials		
	Good creep resistance		
	The smell is low to none		
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Uses	Compliance of Food Exposure		
Uses	Pump parts		
	Kitchen utensils		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.60 - 0.80	%	Internal method
Hardness	Nominal Value	Unit	Test Method

Ball Indentation Hardness (H 358/30)	120	MPa	ISO 2039-1
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	6000	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	2.2	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>			ISO 178
--	5600	MPa	ISO 178
115°C	3850	MPa	ISO 178
Flexural Stress <sup>2</sup>			ISO 178
--	145	MPa	ISO 178
115°C	110	MPa	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	9.0	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	53	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature			
0.45 MPa, not annealed	150	°C	ISO 75-2/B
1.8 MPa, not annealed	145	°C	ISO 75-2/A
Continuous Use Temperature	120	°C	
Vicat Softening Temperature	164	°C	ISO 306/A
CLTE - Flow	3.0E-5	cm/cm/°C	ISO 11359-2
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
<b>Injection instructions</b>			
Holding pressure: 50 to 70% of the injection pressure			
<b>NOTE</b>			
1.	2.0 mm/min		
2.	50 mm/min		

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