

MAJORIS G400WA

Polypropylene

AD majoris

Message:

MAJORIS G400WA is a special long glass fibre reinforced polypropylene grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties. MAJORIS G400WA is fulfilling agreement to the ACS for the water approval.

APPLICATIONS

MAJORIS G400WA is intended for injection moulding of highly demanding technical applications.

The excellent properties of MAJORIS G400WA make it suitable for:

parts for the water industry.

MAJORIS G400WA can, in many of these applications, substitute other engineering plastics or metal alloys.

General Information			
Filler / Reinforcement	Long glass fiber		
Additive	heat stabilizer		
Features	Chemical coupling		
	Recyclable materials		
	Heat resistance, high		
	Thermal Stability		
Uses	Metal substitution		
Agency Ratings	ACS not rated		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage	0.40	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8650	MPa	ISO 527-2/1
Tensile Stress (Break)	129	MPa	ISO 527-2/50
Tensile Strain (Break)	2.2	%	ISO 527-2/50
Flexural Modulus	7700	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	28	kJ/m ²	ISO 179/1eA
23°C	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	162	°C	ISO 75-2/B

Vicat Softening Temperature	145	°C	ISO 306/B
CLTE - Flow			ASTM D696
-30°C	4.4E-5	cm/cm/°C	ASTM D696
23°C	3.1E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Rear Temperature	230 - 250	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	80.0 - 100	°C	
Injection Pressure	30.0 - 60.0	MPa	
Injection Rate	Slow		
Screw Speed	30 - 150	rpm	
Injection instructions			

Holding pressure: 50 to 70% of the injection pressure Back pressure: as low as possible, 0 to 10% Holding time: as long as practical

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