Borealis PP MG302AI

Polypropylene

Borealis AG

Message:

MG302AI is a 30% mineral filled polypropylene compound intended for injection and back injection moulding.
This material has an excellent balance between impact strength and stiffness and high melt flow rate.

General Information	
Filler / Reinforcement	Mineral filler, 30% filler by weight
Features	Good dimensional stability Rigid, good Impact resistance, good High liquidity
Uses	Application in Automobile Field Car interior parts
Forms	Particle
Processing Method	Multiple injection molding Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	91.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Injection Molded)	3400	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	31.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	3.0	%	ISO 527-2/50
Flexural Modulus [1] (Injection Molded)	3400	MPa	ISO 178
Flexural Stress (Injection Molded)	48.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, injection molding	1.2	kJ/m²	ISO 179/1eA
23°C, injection molding	2.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C, injection molding	13	kJ/m²	ISO 179/1eU
23°C, injection molding	22	kJ/m²	ISO 179/1eU

Notched Izod Impact			ISO 180/1A
-20°C, injection molding	1.2	kJ/m²	ISO 180/1A
23°C, injection molding	2.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength			
-20°C, injection molding	12	kJ/m²	ISO 180
23°C, injection molding	20	kJ/m²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	125	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	95.0	°C	ISO 306/B50
Melt Energy	73.0	kJ/kg	ISO 11357
Atomization-16 hrs (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Hopper Temperature	40.0 - 80.0	°C
Processing (Melt) Temp	220 - 260	°C
Mold Temperature	30.0 - 50.0	°C
Holding Pressure	30.0 - 60.0	MPa

Injection instructions
Back pressure: Low to mediumScrew speed: Low to mediumFlow front speed: 100 - 200 mm/s

NOTE	
1.	2.0 mm/min

Recommended distributors for this material

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