

Borealis PP ME268AI

Polypropylene

Borealis AG

Message:

ME268AI is a 20% mineral filled polypropylene compound intended for injection moulding.

ME268AI has been developed especially for the car industry to be used in automotive interior parts.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Recyclable materials		
Uses	Application in Automobile Field		
	Car interior parts		
	Car dashboard		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ISO 1133
Molding Shrinkage ¹	1.1	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	60.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2400	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	26.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	5.0	%	ISO 527-2/50
Flexural Modulus ² (Injection Molded)	2400	MPa	ISO 178
Flexural Stress (Injection Molded)	37.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C, injection molding	2.5	kJ/m ²	ISO 179/1eA
23°C, injection molding	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, injection molding	30	kJ/m ²	ISO 179/1eU
23°C, injection molding	70	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-30°C, injection molding	2.0	kJ/m ²	ISO 180/1A
23°C, injection molding	5.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-20°C, injection molding	21	kJ/m ²	ISO 180/1U
23°C, injection molding	63	kJ/m ²	ISO 180/1U

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	100	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ISO 306/A
--	66.0	°C	ISO 306/B
CLTE - Flow ³	5.8E-5	cm/cm/°C	ISO 11359-2
Melt Energy	57.0	kJ/kg	ISO 11357
Atomization-16 hr (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 - 260	°C
Mold Temperature	30.0 - 50.0	°C
Holding Pressure	3.00 - 6.00	MPa

Injection instructions

Feeding temperature: 40 - 80 °C Back pressure: Low to medium Screw speed: Low to medium Flow front speed: 100 - 200 m/min

NOTE

1. disk
2. 2.0 mm/min
3. -30°C & 80°C

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