

Borealis PP MD231U

Polypropylene Copolymer

Borealis AG

Message:

MD231U is a 20% mineral filled polypropylene compound intended for injection moulding.
This material has excellent balanced mechanical properties and a medium melt flow rate.

General Information			
UL YellowCard	E108112-218651		
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Medium liquidity		
	Thermal Stability		
	Low shrinkage		
Uses	Parts under the hood of a car		
	Application in Automobile Field		
	Car interior parts		
UL File Number	E108112		
Forms	Particle		
Processing Method	Injection molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.0	g/10 min	ISO 1133
230°C/5.0 kg	28	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.6	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	36.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50
Flexural Modulus ¹	2700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A

-20°C	1.2	kJ/m ²	ISO 179/1A
23°C	3.0	kJ/m ²	ISO 179/1A
Charpy Unnotched Impact Strength			ISO 179
-20°C	14	kJ/m ²	ISO 179
23°C	42	kJ/m ²	ISO 179
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
Flammability	Nominal Value	Unit	Test Method
Atomization-16 hrs (100°C)		mg	DIN 75201
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	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		

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