

# Borealis PP MD231U

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Borealis AG

## Technical Data

### Product Description

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.

#### Applications

MD231U is designed for:

- Air ducts
- Air conditioning parts
- Air filters
- Automotive under the bonnet parts

#### Special Features

- Long term high heat stabilised
- High dimensional stability
- UL registered under File E108112
- Low shrinkage

### General

Filler / Reinforcement	• 矿物填料, 20% Filler by Weight		
Additive	• 热稳定剂		
Features	• High Dimensional Stability	• 热稳定性	• 中等流动性
	• 可回收材料	• 收缩性低	
Uses	• 过滤器	• 汽车的发动机罩下的零件	• 汽车领域的应用
Automotive Specifications	• GM GMW16528P-PP-TD20 Color: Natural		
Processing Method	• 注射成型		
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)	

Physical	额定值	单位制	测试方法
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Mechanical	额定值	单位制	测试方法
Tensile Stress	36.0	MPa	ISO 527-2/50
Flexural Modulus <sup>4</sup>	2700	MPa	ISO 178
Impact	额定值	单位制	测试方法
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.0	kJ/m <sup>2</sup>	
23°C	3.0	kJ/m <sup>2</sup>	
Thermal	额定值	单位制	测试方法
Heat Deflection Temperature (0.45 MPa, 未退火)	125	°C	ISO 75-2/B
Flammability	额定值	单位制	测试方法
雾化 - 16 hr (100°C)	< 2.0	mg	DIN 75201
Additional Information	额定值	单位制	测试方法
Emission	< 50.0	µgC/g	VDA 277

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Injection	额定值 单位制
Drying Temperature	80 °C
Drying Time	2.0 hr
Hopper Temperature	40 到 80 °C
Processing (Melt) Temp	220 到 260 °C
Mold Temperature	30 到 50 °C
Holding Pressure	30.0 到 60.0 MPa

#### Injection Notes

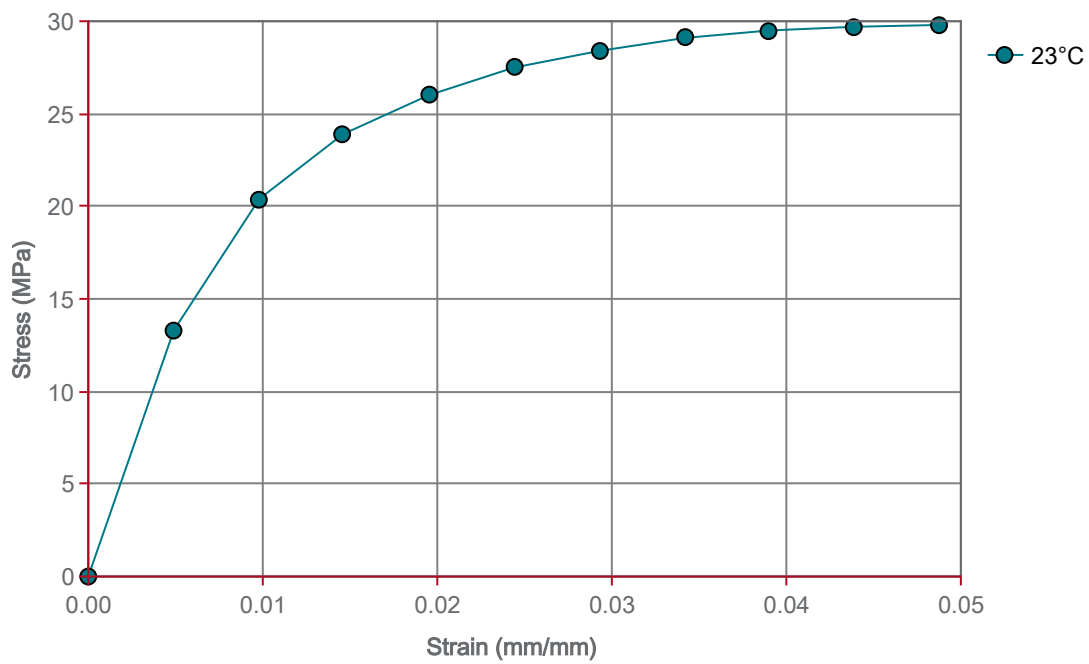
Flow front speed: 100 to 200 mm/s  
Screw speed: Low to medium

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Isothermal Stress vs. Strain (ISO 11403-1)



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Secant Modulus vs. Strain (ISO 11403-1)

