

Borealis PP MD206U

Polypropylene

Borealis AG

Message:

Borealis PP MD206U is a polypropylene product that contains 20% fillers. It can be processed by injection molding and is available in Africa and the Middle East, Europe or Asia Pacific. Typical application areas are: automotive industry. The main characteristics are: good UV resistance.

General Information			
Filler / Reinforcement	Filler, 20% filler by weight		
Features	Good UV resistance		
Uses	Application in Automobile Field		
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	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	SACMA

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	59.0	MPa	ISO 2039-1

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	5.0	%	ISO 527-2/50
Fracture	20	%	ISO 527-2/50
Flexural Modulus ¹	2500	MPa	ISO 178
Flexural Stress	39.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.2	kJ/m ²	ISO 179/1eA
-20°C	2.5	kJ/m ²	ISO 179/1eA
23°C	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	37	kJ/m ²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	3.0	kJ/m ²	ISO 180/1A

23°C	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	112	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A
--	80.0	°C	ISO 306/B
CLTE - Flow (-30 to 80°C)	6.0E-5	cm/cm/°C	Internal method
Flammability	Nominal Value	Unit	Test Method
Atomization-16 h (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 to 200 mm/s			
NOTE			
1.	2.0 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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