

Borealis PP ME212U

Polypropylene

Borealis AG

Message:

ME212U is a 20% mineral filled polypropylene compound intended for injection moulding.
This material has excellent balanced mechanical properties and is easy to process.

General Information			
UL YellowCard	E108112-218654		
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Good liquidity		
	The smell is low to none		
	Thermal Stability		
Uses	Car interior parts		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ISO 1133
Molding Shrinkage	1.2	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	96.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2900	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	32.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	10	%	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	3100	MPa	ISO 178
Flexural Stress (Injection Molded)	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.5	kJ/m²	ISO 179/1eA
23°C	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m²	ISO 179/1eU
23°C	35	kJ/m²	ISO 179/1eU

Notched Izod Impact			ISO 180/1A
-20°C	2.0	kJ/m ²	ISO 180/1A
23°C	3.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-20°C	15	kJ/m ²	ISO 180/1U
23°C	40	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	100	°C	ISO 306/B50
Melt Energy	101	kJ/kg	ISO 11357
Atomization-16 hrs (100°C)		g	DIN 75201
Emission		µgC/g	VDA 277
Injection	Nominal Value	Unit	
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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