

Borealis PP ZC011

Compounded Polypropylene

Borealis AG

Message:

ZC011 is a Mineral filled polypropylene compound intended for extrusion moulding.
The product is 30% Mineral filled.

General Information			
Filler / Reinforcement	Mineral filler, 30% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Recyclable materials		
	Good chemical resistance		
	Thermal Stability		
Uses	Sheet		
	Automotive exterior parts		
	Profile		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	2.3	kJ/m²	ISO 180/1A
0°C	4.0	kJ/m²	ISO 180/1A
23°C	8.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	45	kJ/m²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/Be

1.8 MPa, not annealed	70.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	80.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flammability (1.00 mm)	100	mm/min	ISO 3795
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 230	°C	
Melt Temperature	200 - 230	°C	
Die Temperature	200 - 230	°C	
Extrusion instructions			
Head Temperature: 200 - 230 °C			
NOTE			
1.	2.0 mm/min		

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