

Borealis PP ZC135

Compounded Polypropylene

Borealis AG

Message:

ZC135 is a Mineral filled polypropylene compound intended for extrusion moulding.
The product is 20% Mineral filled.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Rigid, good		
	Impact resistance, good		
	Recyclable materials		
	Thermal stability, good		
Uses	Sheet		
	Application in Automobile Field		
	Profile		

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.90	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, 23°C)	35.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	3.0	%	ISO 527-2/50
Fracture, 23°C	28	%	ISO 527-2
Flexural Modulus ¹	2700	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
-30°C	2.3	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/Be
1.8 MPa, not annealed	66.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	96.0	°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.	200 - 220	°C	
Melt Temperature	210 - 230	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Head Temperature: 210 - 220 °C			
NOTE			
1.	2.0 mm/min		

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