Borealis PP VC105

Compounded Polypropylene

Borealis AG

Message:

VC105 is a 40% mineral filled polypropylene compound intended for injection moulding.

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Features	Good dimensional stability Rigid, good Recyclable materials Good chemical resistance Thermal Stability		
Uses	Application in Automobile Field Car interior parts		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.24	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield, 23°C)	34.0	MPa	ISO 527-2/50
Flexural Modulus [1]	4500	MPa	ISO 178
Flexural Stress	52.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	3.0	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	16	kJ/m²	ISO 180
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	93.0	°C	ISO 75-2/Ae
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability (1.00 mm)	100	mm/min	ISO 3795
Injection	**Nominal Value**	**Unit**	
Mold Temperature	30.0 - 50.0	°C	
Holding Pressure	30.0 - 60.0	MPa	
Injection instructions			
Feeding Temperature: 40 - 80 °CMass Temperature: 220 - 260 °CBack Pressure: Low to MediumScrew Speed: Low to MediumFlow Front Speed: 100 - 200 mm/s			

NOTE	
1.	2.0 mm/min

Recommended distributors for this material

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