

Borealis PP HF700SA

Polypropylene Homopolymer

Borealis AG

Message:

HF700SA is a polypropylene homopolymer intended for injection moulding.
This material has excellent balanced mechanical properties and is easy to process.

General Information			
UL YellowCard	E108112-218645		
Additive	Antistatic property heat stabilizer		
Features	Homopolymer Antistatic property Workability, good High liquidity Thermal Stability		
Uses	Electrical appliances		
UL File Number	E108112		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Apparent Density	0.50 - 0.60	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ISO 1133
Molding Shrinkage	1.5	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ISO 2039-2
Ball Indentation Hardness (H 358/30)	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	ISO 179/1eU
23°C	80	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, not annealed	94.0	°C	ISO 75-2/B
1.8 MPa, not annealed	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
Ball Indentation Temperature ¹	125	°C	IEC 60695-10-2
RTI Elec (2.00 mm)	120	°C	UL 746
RTI Imp (2.00 mm)	120	°C	UL 746
RTI (2.00 mm)	120	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating ² (2.00 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gloss (20°, 2.00 μm)	70		DIN 67530
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.	thickness: 2 mm		
2.	thickness: 0.8 to 3 mm		

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