

Cereplast Hybrid Resins® 103

Polypropylene Alloy

Cereplast, Inc.

Message:

Cereplast Hybrid Resins® are bio-based compounds containing a significant amount of renewable, ecologically sound sources such as starches from corn, tapioca, wheat and potatoes. Combined with a lower petroleum-based plastic content and renewable resources content, Cereplast Hybrid Resins® offer a significant carbon footprint reduction in the final product.

Hybrid 103 is based on a high quality Polypropylene compounded on state-of-the-art mixing equipments using a proprietary formulation. Hybrid 103 offers a unique combination of mechanical properties, ease of processing, high aesthetic surface. Hybrid 103 has been designed to have an excellent balance between impact strength, rigidity and processability.

Hybrid 103 can be processed on existing conventional electric and hydraulic reciprocating screw injection molding machines. Please see our processing guide for guidelines.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	High Flow		
	High Rigidity		
	Pleasing Surface Appearance		
	Renewable Resource Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	24	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1070	MPa	ASTM D638
Tensile Strength (Break)	17.4	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	758	MPa	ASTM D790
Flexural Strength	22.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.9	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 71.1	°C	
Drying Time	4.0	hr	
Suggested Max Regrind	25	%	
Rear Temperature	171 to 182	°C	
Middle Temperature	177 to 193	°C	

Front Temperature	182 to 193	°C
Nozzle Temperature	182 to 193	°C
Processing (Melt) Temp	177 to 199	°C
Mold Temperature	10.0 to 23.9	°C
Screw Speed	50 to 100	rpm
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	
Vent Depth	0.051 to 0.064	mm

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