Cereplast Hybrid Resins® 101

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 101 is based on a high quality Polypropylene compounded on state-of-the-art mixing equipments using a proprietary formulation. Hybrid 101 offers a unique combination of mechanical properties, ease of processing, high aesthetic surface. Hybrid 101 has been designed to have an excellent balance between impact strength, rigidity and processability.

Hybrid 101 can be processed on existing conventional electric and hydraulic reciprocating screw injection molding machines. Please see our processing guide for guidelines.

Features Good Inpact Resistance Good Processability High Rigidity Low Flow Processing Method Processing Method Injection Molding Physical Specific Gravity 1.0 Specific Gravity 8.0 g/rom ¹ AstM D722A Meth Mass-Flow Rate (MFR) (190°C/2.16 kg) 8.0 g/10 min AstM D1238 Mechanical Nominal Value Unit Test Method Tensile Modulus 965 10 %Pa AstM D638 Tensile Kongh (Break) 17.4 Mehanica AstM D638 Tensile Elongation (Break) 10 %Pa AstM D790 Flexural Modulus 689 Mehanci AstM D790 Inpact Maninal Value Unit Test Method Nominal Value Unit Nominal Value Unit Nethod X1D 790 Impact Nominal Value Not <th>General Information</th> <th></th> <th></th> <th></th>	General Information			
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Suggested Max Regrind25%Rear Temperature171 to 182°C	Drying Temperature	60.0 to 71.1	°C	
Rear Temperature 171 to 182 °C		4.0		
	Suggested Max Regrind	25	%	
Middle Temperature 177 to 193 °C	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
Screw Speed	50 to 100	rpm
Screw Speed Screw Compression Ratio	50 to 100 2.2:1.0 to 2.8:1.0	rpm

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