

Biomer® P300

Biodegradable Polymers

Biomer

Message:

Properties of the resins
can be processed as classic thermoplasts
biodegradable
waterproof
small tendency to creep
behaves similar to LPC's in the melt, for this:
finest surfaces
thin walls
microparts
free from even traces of catalysts!
highly crystalline (60 to 70%), for this:
excellent resistance to solvents
temperature of use: -30 to 120°C
shrinkage: 1,3 %

General Information		
Features	Biodegradable	
	Crystalline	
	Good Creep Resistance	
	Low to No Water Absorption	
	Pleasing Surface Appearance	
	Renewable Resource Content	
	Solvent Resistant	
Forms	Pellets	
Processing Method	Extrusion	
	Injection Molding	
Physical	Nominal Value	Unit
Molding Shrinkage	1.3	%
Crystallinity	60 to 70	%
Temperature of Use	-30 to 120	°C
Mechanical	Nominal Value	Unit
Tensile Modulus ¹	1850	MPa
Tensile Stress ² (Yield)	28.0	MPa
Tensile Strain ³ (Break)	11	%
Injection	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	> 2.0	hr
Rear Temperature	185	°C

Middle Temperature	165	°C
Front Temperature	150 to 155	°C
Nozzle Temperature	145	°C
Processing (Melt) Temp	195	°C
Mold Temperature	35.0 to 55.0	°C
Extrusion	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	> 2.0	hr
Cylinder Zone 1 Temp.	185	°C
Cylinder Zone 2 Temp.	165	°C
Cylinder Zone 3 Temp.	155	°C
Cylinder Zone 4 Temp.	150	°C
Adapter Temperature	145	°C
Melt Temperature	> 195	°C
Die Temperature	35.0 to 55.0	°C
NOTE		
1.	1 mm/min	
2.	50 mm/min	
3.	50 mm/min	

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