

Biomer® P226

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
Density	1.25	g/cm ³
Melt Mass-Flow Rate (MFR) (180°C/5.0 kg)	10	g/10 min
Melt Volume-Flow Rate (MVR) (180°C/5.0 kg)	9.50	cm ³ /10min
Molding Shrinkage	1.2 to 1.3	%
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40	%
Crystallinity	60 to 70	%
Flexural Strain at Break	6.6	%
Temperature of Use	-30 to 120	°C
Hardness	Nominal Value	Unit
Shore Hardness (Shore D)	67	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1140 to 1900	MPa	
Tensile Stress ² (Yield)	24.0 to 27.0	MPa	
Tensile Strain ³ (Break)	6.0 to 9.0	%	
Flexural Stress			
3.5% Strain	29.0	MPa	
--	35.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.4	kJ/m ²	
23°C	2.7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	59.0	°C	ISO 75-2/A
Vicat Softening Temperature	147	°C	ISO 306/A120
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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