

DP-7123

Product Manual

Biodegradable high toughness injection molding modified resin, mineral powder filler 15%

Features and Application Fields

The material has the characteristics of high toughness, high strength, strong bending resistance, can be bent more than 90 ° without breaking, can be completely degraded, and has strong antibacterial properties; it conforms to DIN certification, EN13432, GB4806.7, and FDA testing standards. It is used in injection molding products such as disposable cutlery, spoon, chopsticks, etc.

Typical Performance

Test Items	Test Conditions	Standard Test	Unit	Reference
Basic physical characteristics				
Relative density	/	ISO 1183	g/cm ³	1.34
Melt flow rate	190°C, 2.16kg	GB/T 3682	g/10min	25
Mechanical behavior				
Tensile strength	23°C, 50mm/min	ISO 527	MPa	40
Elongation at break	23°C, 50mm/min	ISO 527	%	4.5
Heat distortion temperature	/	GB/T 1634	°C	70.2
Bending strength	23°C, 2mm/min	GB/T 9341	N/mm ²	64.7
Notched impact strength	23°C, 2.75J	GB/T 1843	KJ/m ²	7.5
Recommended processing conditions				
Drying temperature				80°C
Drying time				4-6H
Processing temperature				165°C—190°C
Mold temperature				80°C—90°C

Note: This typical physical property is not a sales specification.