

DP-5123

Product Manual

Biodegradable straight straw resin, mineral powder filler 15%

Features and Application Fields

The material has excellent mechanical properties and can be completely degraded; the product is not easily deformed; it conforms to DIN certification, EN13432, GB4806.7, and FDA testing standards. Used in disposable straw products such as straight tubes and milk tea tubes

Typical Performance

Test Items	Test Conditions	Standard Test	Unit	Reference
Basic physical characteristics				
Relative density	/	ISO 1183	g/cm ³	1.32
Melt flow rate	190°C, 2.16kg	GB/T 3682	g/10min	3
Mechanical behavior				
Tensile strength	23°C, 50mm/min	ISO 527	MPa	40
Elongation at break	23°C, 50mm/min	ISO 527	%	35
Heat distortion temperature	/	GB/T 1634	°C	53
Bending strength	23°C, 2mm/min	GB/T 9341	N/mm ²	49
Notched impact strength	23°C, 2.75J	GB/T 1843	KJ/m ²	9.5
Recommended processing conditions				
Drying temperature				80°C
Drying time				4-6H
Processing temperature				165°C—190°C

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