

DP-5525

Product Manual

Biodegradable Heat Resistant Straw Resin

Features and Application Fields

The material is resistant to high temperature, 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 heat-resistant straws

Typical Performance

Test Items	Test Conditions	Standard Test	Unit	Reference
Basic physical characteristics				
Relative density	/	ISO 1183	g/cm ³	1.35
Melt flow rate	190°C, 2.16kg	GB/T 3682	g/10min	4.5
Mechanical behavior				
Tensile strength	23°C, 50mm/min	ISO 527	MPa	31
Elongation at break	23°C, 50mm/min	ISO 527	%	15
Heat distortion temperature	/	GB/T 1634	°C	65
Bending strength	23°C, 2mm/min	GB/T 9341	N/mm ²	71
Notched impact strength	23°C, 2.75J	GB/T 1843	KJ/m ²	6.86
Recommended processing conditions				
Drying temperature				80°C
Drying time				4-6H
Processing temperature				165°C—185°C

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