

DP-8123

Product Manual

Biodegradable shopping bag modified resin, mineral powder filler 15%

Features and Application Fields

The material is food-contactable, completely degradable, natural antistatic, and has good printing performance; it has passed DIN certification, FDA testing, REACH testing, national standard GB/T 38082-2019 and other industry standards. Used in film bags such as vest bags, shopping bags, garbage bags, etc.

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	6
Mechanical behavior				
Tensile strength	23°C, 50mm/min	ISO 527	MPa	22
Elongation at break	23°C, 50mm/min	ISO 527	%	600

Film Properties

Test Items	Test Conditions	Standard Test	Unit	Reference
Basic physical characteristics				
Thickness			mm	0.03
Mechanical behavior				
Tensile strength (longitudinal)	23°C, 500mm/min	ISO 527	MPa	30.8
Elongation at break (longitudinal)	23°C, 500mm/min	ISO 527	%	350
Maximum force (longitudinal)	23°C, 500mm/min	ISO 527	N	5
Tear strength (longitudinal)	23°C, 200mm/min	QB/T 1130	N/mm	133.9
Tensile strength (transverse)	23°C, 500mm/min	ISO 527	MPa	26.2
Elongation at break (transverse)	23°C, 500mm/min	ISO 527	%	599
Maximum force (lateral)	23°C, 500mm/min	ISO 527	N	4.3
Tear strength (lateral)	23°C, 200mm/min	QB/T 1130	N/mm	82.5

Recommended processing conditions

Drying temperature	80°C
Drying time	2-4H
Blown film temperature	145°C—165°C

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