

HANDAN SHIBO NEW MATERIALS CO.,LTD.

PLA L175			
Features	Biodegradable grade , Sugarcane based		
Application	3D printing materials , Food container . Food packaging application . Disposable tableware		
Physical Property	Test Method	Unit	Value
Desnity	ISO 1183	g/cm ³	1.24
Melt Index (190℃/2.16kg)	ISO 1133	g/10min	3. 0
Moisture Content Karl fisher titration	Interal Method	400	ppm
Monomer Content	Interal Method	0. 3	%
Stereochemical Purity L-isomer	Interal Method	99	%
Mechanical Property	Test Method	Unit	Value
Tensile Strength	ISO 527	MPa	50
Tensile Modulus	ISO 527	MPa	3500
Elongation Break	ISO 527	%	5
Flexural Strength	ISO 178	MPa	65
Flexural Modulus	ISO 178	MPa	2400
Notch impact strength	ISO 179	KJ/m ²	5
Thermal	Test Method	Unit	Value
HDT 0.45MPa Amorphous	ISO 75	℃	60
HDT 0.45MPa Crystalline	ISO 75	℃	105
Melting Temperature DSC	Interal Method	℃	175
TG DSC	Interal Method	℃	60