

BIOPLAST® GS 2189

Thermoplastic
BIOTEC GmbH & Co. KG

Message:

BIOPLAST GS 2189 is BIOTEC's trademark for a completely new, plasticizer-free thermoplastic material. BIOPLAST GS 2189 is extremely suitable for sheet film extrusion, blown film extrusion and injection moulding of completely biodegradable products. The complete biodegradability and other functional properties enable the converter to advance in production areas, which could not be reached with traditional thermoplastic materials.

General Information			
Features	Biodegradable		
	Food Contact Acceptable		
	Good Colorability		
	Good Heat Seal		
	High Rigidity		
	Renewable Resource Content		
Uses	Agricultural Applications		
	Film		
	Packaging		
	Sheet		
Agency Ratings	BgVV Recommendation XXV		
	EEC 2002/72/EC		
	EN 13432		
	FDA FCN 558		
Forms	Granules		
Processing Method	Blown Film		
	Film Extrusion		
	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.20 to 1.40	g/cm ³	ISO 1183
Apparent Density	0.88 to 0.94	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15 to 40	g/10 min	ISO 1133
Particle Size	2.00 to 3.00	mm	
Water Content	< 0.20	%	Internal Method
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	> 10	μm	ISO 2286-3
Tensile Strength			DIN 53455
MD : 23°C, 10 μm	40.0 to 50.0	MPa	
TD : 23°C, 10 μm	35.0 to 45.0	MPa	
Carbon Dioxide Transmission Rate (400 μm)	150 to 200	cm ³ /m ² /24 hr	ASTM D1434
Oxygen Transmission Rate (Wet) (400 μm)	40.0 to 60.0	cm ³ /m ² /24 hr	ASTM F1927
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			ISO 179
-20°C	75	kJ/m ²	
23°C	140	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	60.0	°C	ISO 306/A120
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.10 to 1.30	g/cm ³	ISO 1133

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Recommended distributors for this material

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