



RM Biotech Pvt Ltd

RMB003 - Technical Data Sheet

Product Description

RMBPL[®] RMB003 film grade compound is completely biodegradable and compostable granules, designed to extrude flexible bioplastic films for various packaging applications. It is engineered with high performance and intended to provide alternatives to conventional plastics, which can be easily processed on conventional plastic manufacturing equipment.

Applications

RMBPL[®] RMB003 film grade resin can be used to produce film for applications such as Industrial packaging.

Physical Properties

Property	Unit	Test Method	Value
Specific Gravity	gm/cm ³	ASTM D792	1.24 – 1.4
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	3 – 6
Melting Point	°C	ASTM D3418	110 -160

Mechanical Properties

Property	Unit	Test Method	Value
Tensile Strength (MD)	MPa	ASTM D882	37
Tensile Strength (TD)	MPa	ASTM D882	30
Elongation (MD)	%	ASTM D882	546
Elongation (TD)	%	ASTM D882	615
Dart Impact	gm	ASTM D1709	332
Elmendorf Tear (MD)	gf	ASTM D1922	67
Elmendorf Tear (TD)	Gf	ASTM D1922	156

Note: The values mentioned is typical properties of 20 microns blown film, the property values listed above are calculated under standard temperature conditions and values should be viewed as guidelines only.