



RM Biotech Pvt Ltd

BM005 - Technical Data Sheet

Product Description

RMBPL® BM005 is a patented biodegradable resin compound designed to replace traditional conventional plastic materials for injection molded plastic for cold applications which can be processed at the existing or the same conventional plastic processing machineries. RMBPL® BM005 is produced using renewable resources providing consumers the opportunity to reduce the carbon footprint meeting the IS/ISO 17088 standards.

Applications

RMBPL® BM005 Extrusion Grade Resin is exclusively designed for injection molded plastic applications such as making cutlery, hangers, clips, containers.

Physical Properties			
Property	Unit	Test Method	Value
Specific Gravity	gm/cm ³	ASTM D792	1.3 – 1.4
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	7 – 8
Melting Point	°C	ASTM D3418	150 -180
Molding Shrinkage	%	ASTM D955	0.9
Heat Deflection Temperature (un-Annealed)	°C	ASTM D648	60
Mechanical Properties			
Property	Unit	Test Method	Value
Tensile Strength	MPa	ASTM D638	55
Tensile Elongation	%	ASTM D638	9
Tensile Modulus	MPa	ASTM D638	2150
Flexural Strength	MPa	ASTM D790	6137
Notched Impact Strength	J/m	ASTM D256	35

Note: Note: The values mentioned above are provided on standard test samples, These to be considered as guide values only.