

# Biograde B-LM

Biodegradable Polymers  
Biograde Group of Companies

Message:

A hybrid masterbatch with high content of renewable resources and Polypropylene (PP) for moulding rigid products where Biodegradability is not required.

For use in applications where the use of renewable resources or sustainability are desired.

Can be used by blending BLM masterbatch with PP in injection moulding and extrusion applications.

BIOGRADE B-LM is based on a blend of thermoplastic starch (TPS) and polyolefin's. This grade of resin is compatibilised to offer a high level of mechanical strength, good elongation properties and toughness. The resin is based on corn starch which is a renewable material.

Applications

Injection moulded products such as cutlery, toothbrushes, combs, shavers, golf-tees, etc.

Stakes and pegs

Horticultural products such as flower pots, planters and stakes

Injection moulded caps and closures

Sheet extruded products such food trays, tubs, disposable plates, strapping and labels

Blow moulded bottles and toys

Profile extruded products such as candy sticks and disposable drinking straws

| General Information |                            |
|---------------------|----------------------------|
| Features            | Biodegradable              |
|                     | Good Toughness             |
|                     | High Elongation            |
|                     | High Strength              |
|                     | Renewable Resource Content |
| Uses                | Blow Molding Applications  |
|                     | Bottles                    |
|                     | Caps                       |
|                     | Closures                   |
|                     | Disposable Tableware       |
|                     | Drinking Straws            |
|                     | Labels                     |
|                     | Lawn and Garden Equipment  |
|                     | Personal Care              |
|                     | Profiles                   |
|                     | Sheet                      |
|                     | Sporting Goods             |
|                     | Strapping                  |
|                     | Support Trays              |
|                     | Toothbrush Handles         |
|                     | Toys                       |
| Forms               | Pellets                    |

| Processing Method                         | Extrusion         |                   |             |
|-------------------------------------------|-------------------|-------------------|-------------|
|                                           | Injection Molding |                   |             |
| Physical                                  | Nominal Value     | Unit              | Test Method |
| Specific Gravity                          | 1.11              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.6               | g/10 min          | ASTM D1238  |
| Thermal                                   | Nominal Value     | Unit              | Test Method |
| Peak Melting Temperature                  | 90.0              | °C                | ASTM D3418  |
| Additional Information                    | Nominal Value     | Unit              |             |
| Blown Film Melt Temperature               | 160 to 165        | °C                |             |
| Injection                                 | Nominal Value     | Unit              |             |
| Suggested Max Moisture                    | 0.20              | %                 |             |
| Middle Temperature                        | 170 to 180        | °C                |             |
| Front Temperature                         | 150 to 160        | °C                |             |
| Nozzle Temperature                        | 180 to 190        | °C                |             |
| Processing (Melt) Temp                    | 160 to 165        | °C                |             |
| Mold Temperature                          | 10.0 to 30.0      | °C                |             |
| Extrusion                                 | Nominal Value     | Unit              |             |
| Suggested Max Moisture                    | 0.20              | %                 |             |
| Melt Temperature                          | 160 to 165        | °C                |             |

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