

# MAJ'ECO DFRG178G - 1199

Biodegradable Polymers

AD majoris

Message:

MAJ'ECO DFRG178G-1199 is a biodegradable polymer (Biodeg Polymers) product. It can be processed by injection molding and is available in Europe. Features include:  
flame retardant/rated flame  
environmental protection/green

| General Information                                   |                      |                   |                |
|-------------------------------------------------------|----------------------|-------------------|----------------|
| Features                                              | Updatable resources  |                   |                |
|                                                       | Recyclable materials |                   |                |
| Forms                                                 | Particle             |                   |                |
| Processing Method                                     | Injection molding    |                   |                |
| Physical                                              | Nominal Value        | Unit              | Test Method    |
| Density                                               | 1.35                 | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)              | 5.0                  | g/10 min          | ISO 1133       |
| Mechanical                                            | Nominal Value        | Unit              | Test Method    |
| Tensile Modulus                                       | 4280                 | MPa               | ISO 527-2/1    |
| Tensile Stress (Break)                                | 31.0                 | MPa               | ISO 527-2/50   |
| Flexural Modulus <sup>1</sup>                         | 3230                 | MPa               | ISO 178        |
| Impact                                                | Nominal Value        | Unit              | Test Method    |
| Charpy Notched Impact Strength (23°C)                 | 6.5                  | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength (23°C)               | 25                   | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Thermal                                               | Nominal Value        | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed)    | 104                  | °C                | ISO 75-2/B     |
| Ball Pressure Test (95°C)                             | Pass                 |                   | IEC 60695-10-2 |
| Flammability                                          | Nominal Value        | Unit              | Test Method    |
| Flame Rating (1.60 mm)                                | V-0                  |                   | UL 94          |
| Glow Wire Flammability Index (2.00 mm)                | 960                  | °C                | IEC 60695-2-12 |
| Injection                                             | Nominal Value        | Unit              |                |
| Drying Temperature                                    | 90.0                 | °C                |                |
| Drying Time                                           | 4.0                  | hr                |                |
| Processing (Melt) Temp                                | 140 - 180            | °C                |                |
| Mold Temperature                                      | 30.0 - 60.0          | °C                |                |
| Injection Rate                                        | Moderate             |                   |                |
| Injection instructions                                |                      |                   |                |
| Holding pressure: 50 to 70% of the injection pressure |                      |                   |                |
| NOTE                                                  |                      |                   |                |

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