

# MAJ'ECO DG207BS - 8581

Biodegradable Polymers

AD majoris

## Message:

MAJ'ECO DG207BS - 8581 is a glass fibre reinforced Biopolymer compound intended for injection moulding.

The product is available in grey, but other colours can be provided on request.

MAJ'ECO DG207BS - 8581 has been developed especially for demanding applications in various engineering sectors.

MAJ'ECO DG207BS - 8581 has high rigidity and impact strength, good dimensional stability and creep resistance. The product is UV stabilised.

## APPLICATIONS

Electrical appliances

Exterior parts

Technical components

Sports leisure

| General Information                      |   |                   |              |
|--|---|-------------------|--------------|
| Filler / Reinforcement                   | Glass fiber reinforced material, 20% filler by weight |                   |              |
| Additive                                 | UV stabilizer   |                   |              |
| Features                                 | Good dimensional stability                            |                   |              |
|  | Rigidity, high  |                   |              |
|  | Impact resistance, high                               |                   |              |
|  | Good UV resistance                                    |                   |              |
|  | Updatable resources                                   |                   |              |
|  | Recyclable materials                                  |                   |              |
|  | Good creep resistance                                 |                   |              |
|  |   |                   |              |
|  |   |                   |              |
|  |   |                   |              |
| Uses                                     | Electrical/Electronic Applications                    |                   |              |
|  | Electrical appliances                                 |                   |              |
|  | Outdoor application                                   |                   |              |
|  | Sporting goods  |                   |              |
| Appearance                               | Grey  |                   |              |
|  | Available colors                                      |                   |              |
| Forms                                    | Particle  |                   |              |
| Processing Method                        | Injection molding                                     |                   |              |
| Physical                                 | Nominal Value   | Unit              | Test Method  |
| Density                                  | 1.20  | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 3.5   | g/10 min          | ISO 1133     |
| Mechanical                               | Nominal Value   | Unit              | Test Method  |
| Tensile Modulus                          | 3400  | MPa               | ISO 527-2/1  |
| Tensile Stress (Break)                   | 50.0  | MPa               | ISO 527-2/50 |
| Tensile Strain (Break)                   | 6.0   | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>            | 2850  | MPa               | ISO 178      |

|   |               |                   |             |
|---|---------------|-------------------|-------------|
| Flexural Stress <sup>2</sup>                          | 75.0          | MPa               | ISO 178     |
| Impact  | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)                 | 14            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C)               | 45            | kJ/m <sup>2</sup> | ISO 179/1eU |
| Flammability  | Nominal Value |                   | Test Method |
| Flame Rating  | HB            |                   | UL 94       |
| Injection   | Nominal Value | Unit              |             |
| Drying Temperature                                    | 80.0          | °C                |             |
| Drying Time   | 4.0           | hr                |             |
| Processing (Melt) Temp                                | 180 - 220     | °C                |             |
| Mold Temperature                                      | 30.0 - 50.0   | °C                |             |
| Injection Rate  | Moderate      |                   |             |
| Injection instructions                                |               |                   |             |
| Holding pressure: 50 to 70% of the injection pressure |               |                   |             |
| NOTE  |               |                   |             |
| 1.  | 2.0 mm/min    |                   |             |
| 2.  | 50 mm/min     |                   |             |

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