

MAJ'ECO GN080BS

Biodegradable Polymers

AD majoris

Message:

MAJ'ECO GN080BS is a biopolymer compound intended for injection mouldings.
Biobased Carbon content following ASTM D6866: 20%
Renewable resource content: 32%
MAJ'ECO GN080BS has been developed especially for demanding applications in various engineering sectors.

APPLICATIONS

Product such as:

- Boxes
- Containers
- Racks
- Technical components

| General Information | | | |
|---|--|-------------------|-----------------|
| Filler / Reinforcement | Carbon fiber reinforced material, 20% filler by weight | | |
| Features | Updatable resources | | |
| | Recyclable materials | | |
| | Compliance of Food Exposure | | |
| Uses | Container | | |
| | Bracket | | |
| Agency Ratings | FDA 21 CFR 176.170(c), Table 1 | | |
| | FDA 21 CFR 176.170(c), table 2 | | |
| | Europe No 10/2011 | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.00 | g/cm ³ | ASTM D792A |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 54 | g/10 min | ASTM D1238 |
| Molding Shrinkage | 1.0 - 1.6 | % | Internal method |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 950 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 21.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 15 | % | ASTM D638 |
| Flexural Modulus | 860 | MPa | ASTM D790 |
| Flexural Strength | 25.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Dart Drop Impact | 10.3 | J | ASTM D5420 |

| Additional Information | Nominal Value | Unit |
|------------------------|---------------|------|
| Renewable Content | 32 | % |
| Injection | Nominal Value | Unit |
| Drying Temperature | 70.0 | °C |
| Drying Time | 4.0 | hr |
| Processing (Melt) Temp | 170 - 200 | °C |
| Mold Temperature | 20.0 - 50.0 | °C |
| Injection Rate | Moderate | |
| Screw Speed | 50 - 100 | rpm |
| Injection instructions | | |

Holding pressure: 50 to 70% of the injection pressure

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

