

# SCANFILL BIO

## Foil GYX52C1

Thermoforming grade, Biopolymer

| PROPERTY                          | VALUE   | UNIT              | STANDARD       |
|-----------------------------------|---------|-------------------|----------------|
| <b>PHYSICAL PROPERTIES</b>        |         |                   |                |
| Density                           | 1,40    | g/cm <sup>3</sup> | ISO 1183       |
| MFI at 190°C/2,16kg               | <1      | g/10min           | ISO 1133       |
| <b>MECHANICAL PROPERTIES</b>      |         |                   |                |
| Flexural modulus at +23°C         | 3900    | MPa               | ISO 178        |
| Maximum flexural strength         | 39      | MPa               | ISO 178        |
| Maximum tensile strength          | 20      | MPa               | ISO 527-2      |
| Elongation at break               | 6       | %                 | ISO 527-2      |
| Elongation at yield               | 4       | %                 | ISO 527-2      |
| <b>IMPACT PROPERTIES</b>          |         |                   |                |
| Notched Charpy at +23°C           | 6       | kJ/m <sup>2</sup> | ISO 179        |
| Notched Charpy at -20°C           | 3,5     | kJ/m <sup>2</sup> | ISO 179        |
| Unnotched Charpy at +23°C         |         | kJ/m <sup>2</sup> | ISO 179        |
| Unnotched Charpy at -20°C         |         | kJ/m <sup>2</sup> | ISO 179        |
| <b>THERMAL PROPERTIES</b>         |         |                   |                |
| HDT 120°C/h at 455kPa (B)         |         | °C                | ISO 75/1       |
| HDT 120°C/h at 1820kPa (A)        |         | °C                | ISO 75/1       |
| Vicat 50°C/h at 9,81N (A)         |         | °C                | ISO 306        |
| Vicat 50°C/h at 49,05N (B)        |         | °C                | ISO 306        |
| <b>FLAME RETARDENT PROPERTIES</b> |         |                   |                |
| GWFI at 2 mm                      |         | °C                | IEC 60695-2-12 |
| UL94 at 1,6 mm                    | HB      |                   | UL94           |
| <b>ADDITIONAL INFORMATION</b>     |         |                   |                |
| Filler content                    | 52      | ±2%               | ISO 3451       |
| Mould shrinkage (with flow)       | 0,9-1,2 | %                 | Polykemi       |
| Mould shrinkage (across flow)     | 0,9-1,2 | %                 | Polykemi       |
| <b>PROCESS INSTRUCTIONS</b>       |         |                   |                |
| Drying time                       | 2-4     | h                 |                |
| Drying temperature                | 70-80   | °C                |                |
| Melt temperature                  | 180-230 | °C                |                |
| Mould temperature                 |         | °C                |                |

Stated values in this datasheet are approximate. The values originate, if nothing else is stated, from standardized test specimens in natural color. All information, recommendations and advice given by Polykemi AB or any of its subsidiaries and affiliates, written or verbal, are according to Polykemi AB's knowledge to the date of this edition, correct and given in good faith. It is the responsibility of the customer to test and evaluate if the material suits the application and the environment in which it is intended to be used. Polykemi AB, its subsidiaries and affiliates can not be held responsible or liable for any loss incurred through incorrect or faulty use of the products. When producing details in flame retardant material, corrosion protected steel is to recommend for the mould. Polykemi AB takes no responsibility for any printing errors.

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**Postal address**  
P.O. Box 14  
SE-271 21 YSTAD

**Visiting address**  
Brongsgatan 8  
SE-271 39 YSTAD

**Telephone**  
+46 (0)411 170 30  
**Telefax**  
+46 (0)411 167 30

**VAT-No/US-t-Nr**  
SE556765004801  
**Org nr**  
556765-0048

[scanfill@scanfill.se](mailto:scanfill@scanfill.se)  
[www.scanfill.com](http://www.scanfill.com)