


**TotalEnergies**

Refining & Chemicals  
Polymers

## Finalloy® EBP-831 OK1

Technical data sheet – Issue 6  
Polypropylene Automotive Compound  
Produced in Europe

### Description

**Finalloy EBP-831 OK1** is a 30% mineral-filled and impact-modified polypropylene-based compound that combines excellent rigidity/impact balance, good processability and low linear thermal expansion.

**Finalloy EBP-831 OK1** is particularly suitable for the injection moulding of **unpainted** automotive exterior body parts, which require high stiffness, good surface aspect and high dimensional stability. This material is **UV stabilized**.

### Characteristics

|                                             | Method          | Unit              | Typical Value       |
|---------------------------------------------|-----------------|-------------------|---------------------|
| <b>Rheological properties</b>               |                 |                   |                     |
| Melt Flow Rate 230°C/2,16 kg                | ISO 1133-1      | g/10 min          | 15                  |
| <b>Mechanical properties</b>                |                 |                   |                     |
| Tensile strength at yield                   | ISO 527         | MPa               | 21                  |
| Tensile strain at yield                     | ISO 527         | %                 | 3,5                 |
| Elongation at break                         | ISO 527         | %                 | 25                  |
| Flexural modulus                            | ISO 178         | MPa               | 2600                |
| Charpy impact strength (notched)<br>at 23°C | ISO 179-1eA     | kJ/m <sup>2</sup> | 25                  |
| <b>Thermal properties</b>                   |                 |                   |                     |
| Melting range                               | internal method | °C                | 160-165             |
| Vicat Softening point A50 (10N, 50°C/h)     | ISO 306         | °C                | 135                 |
| Linear mould shrinkage, MD, t=3mm           | internal method | %                 | 0,5 – 0,7           |
| Coefficient of Linear Thermal Expansion     | ISO 11359-2     | m/(m·K)           | 45·10 <sup>-6</sup> |
| <b>Other physical properties</b>            |                 |                   |                     |
| Density                                     | ISO 1183-1      | g/cm <sup>3</sup> | 1,12                |

### Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery, provided storage conditions are used as given in the SDS of our product. SDS may be obtained from your technical service contact on request.

Shrinkage range is given as an indication only and should not be used as such for mould design. Shrinkage depends on many variables. Users should define mould shrinkage based on their own measurements.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. These are typical values not to be construed as specification limits. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. The Companies within Total Petrochemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.