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## Finalloy® EBP-830/1 C16

Technical data sheet – Issue 7  
Polypropylene Automotive Compound  
Produced in Europe

### Description

**Finalloy EBP-830/1 C16** is a 30% mineral-filled and impact modified polypropylene-based compound that combines a very high rigidity with good processability and a very low linear thermal expansion. Finalloy

**EBP-830/1 C16** is particularly suitable for the injection moulding of automotive body parts, which require high stiffness, good paintability and very high dimensional stability.

### Characteristics

|                                         | Method          | Unit              | Typical Value       |
|-----------------------------------------|-----------------|-------------------|---------------------|
| <b>Rheological properties</b>           |                 |                   |                     |
| Melt Flow Rate 230°C/2,16 kg            | ISO 1133-1      | g/10 min          | 13                  |
| <b>Mechanical properties</b>            |                 |                   |                     |
| Tensile strength at yield               | ISO 527         | MPa               | 27                  |
| Tensile strain at yield                 | ISO 527         | %                 | 2                   |
| Elongation at break                     | ISO 527         | %                 | 20                  |
| Flexural modulus                        | ISO 178         | MPa               | 3800                |
| Charpy impact strength (notched)        |                 |                   |                     |
| at 23°C                                 | ISO 179-1eA     | kJ/m <sup>2</sup> | 6                   |
| at -20°C                                | ISO 179-1eA     | kJ/m <sup>2</sup> | 3                   |
| Biaxial FW Impact at 0°C                | ISO 6603/20     |                   | Ductile             |
| <b>Thermal properties</b>               |                 |                   |                     |
| Melting range                           | internal method | °C                | 160-165             |
| Heat Deflection Temperature             |                 |                   |                     |
| 0,45 MPa - 120°C per hour               | ISO 75-2        | °C                | 120                 |
| 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> | 1,13                |