



TotalEnergies

Refining & Chemicals
Polymers

Finalloy® ST-86/2

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

Description

Finalloy ST-86/2 is an impact-modified, glass- and mica-filled polypropylene-based compound that combines a high rigidity with very good processability and little warpage.

Finalloy ST-86/2 is particularly suitable for injection moulding.

Characteristics

| | Method | Unit | Typical Value |
|--|-----------------|-------------------|---------------|
| Rheological properties | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133-1 | g/10 min | 4 |
| Mechanical properties | | | |
| Tensile modulus | ISO 527 | MPa | 3700 |
| Tensile strength at yield | ISO 527 | MPa | 50 |
| Elongation at break | ISO 527 | % | 7 |
| Flexural modulus | ISO 178 | MPa | 3800 |
| Charpy impact strength (notched) at 23°C | ISO 179-1eA | kJ/m ² | 13 |
| Flexural Strength | ISO 178 | MPa | 75 |
| Thermal properties | | | |
| Melting range | internal method | °C | 160-165 |
| Heat Deflection Temperature 0.45 MPa - 120°C per hour | ISO 75-2 | °C | 150 |
| Linear mould shrinkage, MD, t=3mm | internal method | % | 0.3 – 0,5 |
| Other physical properties | | | |
| Density | ISO 1183-1 | g/cm ³ | 1.040 |

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.

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Rev : November 22