

Description

Finalloy EBP-15X6H is a mineral-filled and impact modified polypropylene-based compound that has a very low linear thermal expansion in combination with high modulus, good process ability and reduced tiger marks. It has a high **thermal stability**.

Finalloy EBP-15X6H is UV stabilized and can be supplied in natural or coloured upon request. It is particularly suitable for the injection moulding of **unpainted** automotive exterior parts like rocker panels wheel arches, door trim lists and other parts which require low thermal expansion.

Characteristics

| | Method | Unit | Typical Value |
|---|-----------------|-------------------|---------------------|
| Rheological properties | | | |
| Melt Flow Index 230°C/2.16 kg | ISO 1133 | g/10 min | 20 |
| Mechanical properties | | | |
| Tensile strength at yield | ISO 527 | MPa | 18 |
| Tensile strain at yield | ISO 527 | % | 6 |
| Elongation at break | ISO 527 | % | 30 |
| Flexural modulus | ISO 178 | MPa | 2000 |
| Charpy impact strength (notched) | ISO 179-1eA | kJ/m ² | |
| at 23°C | | | 15 |
| at -20°C | | | 3 |
| Hardness | ISO 868 | Shore D | 65 |
| Thermal properties | | | |
| Melting range | internal method | °C | 160-165 |
| Heat Deflection Temperature | ISO 75-2 | °C | |
| 0.45 MPa - 120°C per hour | | | 100 |
| Vicat Softening point A50 (10N, 50°C/h) | ISO 306 | °C | 125 |
| Linear mould shrinkage, MD, t=3mm | internal method | % | 0.4-0.65 |
| Coefficient of Linear Thermal Expansion | ASTM D 696 | m/m/K | 37*10 ⁻⁶ |
| Other physical properties | | | |
| Density | ISO 1183 | g/cm ³ | 1.120 |

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