

SKYi Stärk-OH3335

Technical Data Sheet: PP 40 LFT

Description:

SKYi Stärk-OH3335 is a special Heat stabilized long glass fibre reinforced polypropylene grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, providing outstanding mechanical properties.

Applications:

SKYi Stärk-OH3335 is intended for injection moulding of highly demanding technical applications.

The excellent properties of **SKYi Stärk-OH3335** make it suitable for: Electrical components, automotive parts, interior, exterior and under the bonnet, structural furniture parts, load bearing, demanding components for various engineering sectors.

SKYi Stärk-OH3335 can, in many of these applications, substitute other engineering plastics or metal alloys.

Product Characteristics

| SR. NO. | PROPERTIES | TEST METHOD | UNITS | VALUES |
|----------|-----------------------------|-------------|-------------------|--------|
| A | PHYSICAL | | | |
| 1 | Specific gravity | | g/cc | 1.2 |
| B | MECHANICAL | | | |
| 1 | Tensile strength at break | ISO 527-I | MPa | 128 |
| 2 | Tensile Modulus | ISO 527-I | MPa | 8400 |
| 3 | Elongation at Break | ISO 527-I | % | 2.2 |
| 4 | Flexural Strength | ISO 178 | MPa | 195 |
| 5 | Flexural Modulus | ISO 178 | MPa | 8200 |
| 6 | Charpy Impact Test- Notched | ISO 179-I | kJ/m ² | 28 |
| C | THERMAL | | | |
| 1 | HDT (At 0.45MPa) | ISO 75-I | °C | 163 |

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Storage and Handling:

SKYi Stärk-OH3335 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation with resulting odour generation and colour changes.

Processing Guidelines: TEMPERATURES- Barrel Zones

| Material | Feed section (°C) | Nozzle(°C) | Melt temperature (°C) | Mold temperature (°C) |
|-----------|-------------------|------------|-----------------------|-----------------------|
| LFT GF-PP | 220-230 | 230-250 | 230-250 | 80 |

Safety:

SKYi Stärk-OH3335 is not classified as a dangerous preparation. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed. Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation.

Recycling:

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling. A Materials Safety Data Sheet is available on request. Please contact your SKYi representative for more details on various aspects of safety, recovery and disposal of the product.

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

- Safety Data sheet
- Statement on compliance to RoHS Directive 2011/65/EU
- Processing guidelines

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