

SKYi Stärk BH1118

Technical Data Sheet: PBT 30 LFT

Description:

SKYi Stärk BH1118 is a special heat stabilized long glass fibre reinforced polybutylene terephthalate grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polybutylene terephthalate matrix, providing outstanding mechanical properties.

SKYi Stärk BH1118 is available both in black and natural.

Applications:

SKYi Stärk BH1118 is intended for injection moulding of highly demanding technical applications. The excellent properties of **SKYi Stärk BH1118** make it suitable for: Electronic components, automotive parts, door handle, demanding components for various engineering sectors.

SKYi Stärk BH1118 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	1.51
B	MECHANICAL			
1	Tensile strength at break	ISO 527-I	MPa	145
2	Tensile Modulus	ISO 527-I	MPa	10000
3	Elongation at Break	ISO 527-I	%	2.5
4	Flexural Strength	ISO 178	MPa	195
5	Flexural Modulus	ISO 178	MPa	-
6	Charpy Impact Test- Notched	ISO 179-I	kJ/m ²	12
C	THERMAL			
1	HDT (At 0.45MPa)	ISO 75-I	°C	220

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Storage and Handling:

SKYi Stärk BH1118 should be stored in dry conditions at temperatures 120°C for 2hrs. 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	255-285	280-290	220-280	40 – 60

Safety:

SKYi Stärk BH1118 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. The 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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