

SKYi Stabil-MH5166

Technical Data Sheet: PA66 50 LFT (Provisional)

Description:

SKYi Stabil MH5166 is a special Heat stabilized, long glass fibre reinforced polyamide grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polyamide matrix, providing outstanding mechanical properties.

SKYi Stabil MH5166 is available both in black and natural. Other colours can be provided on request.

Applications

SKYi Stabil MH5166 is intended for injection moulding of highly demanding technical applications.

The excellent properties of **SKYi Stabil MH5166** 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 Stabil MH5166 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	245
2	Tensile Modulus	ISO 527-I	MPa	16500
3	Elongation at Break	ISO 527-I	%	2
4	Flexural Strength	ISO 178	MPa	365
5	Flexural Modulus	ISO 178	MPa	15200
6	Charpy Impact Test- Notched	ISO 179-I	kJ/m ²	36
C	THERMAL			
1	HDT (At 0.45MPa)	ISO 75-I	°C	260

Storage and Handling

All information supplied by or on behalf of SKYi composites in relation to its products, whether in the nature of data, recommendations or otherwise, is based on research and given in good faith, but SKYi composites assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use of the aforementioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attach to SKYi composites for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer. This certificate does not release the recipient from his obligation to carry out his usual incoming goods inspections. Our general conditions of sale remain in force.



SKYi Stabil MH5166 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-PA66	275-285	285-295	285-300	90-120

Safety

SKYi Stabil MH5166 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.

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