

SKYi Stabil-MH5106

Technical Data Sheet: PA6 50 LFT

Description:

SKYi Stabil-MH5106 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-MH5106 is available both in black and natural. Other colours can be provided on request.

Applications

SKYi Stabil-MH5106 is intended for injection moulding of highly demanding technical applications.

The excellent properties of **SKYi Stabil-MH5106** 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-MH5106 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	1.54
B	MECHANICAL			
1	Tensile strength at break	ISO 527-I	MPa	240
2	Tensile Modulus	ISO 527-I	MPa	17000
3	Elongation at Break	ISO 527-I	%	2.1
4	Flexural Strength	ISO 178	MPa	355
5	Flexural Modulus	ISO 178	MPa	15200
6	Charpy Impact Test- Notched	ISO 179-I	kJ/m ²	35
C	THERMAL			
1	HDT (At 0.45MPa)	ISO 75-I	°C	>230

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Storage and Handling

SKYi Stabil-MH5106 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-PA6	240-250	260-270	270-280	90-100

Safety

SKYi Stabil-MH5106 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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