

SKYi Treei MU1166

Technical Data Sheet: PA66 30 LFT

Description:

SKYi Treei MU1166 is a special utility long glass fibre reinforced polyamide grade, for injection moulding and extrusion. It is based on a high proportion of recycled PA66. The typical percentage of recycled material is about 55%. The long glass fibres, chemically coupled to the polyamide matrix, providing outstanding mechanical properties.

SKYi Treei MU1166 is available in black colour.

Applications

SKYi Treei MU1166 is intended for injection moulding of technical applications.

The excellent properties of **SKYi Treei MU1166** 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 Treei MU1166 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	1.36	
B	MECHANICAL				
				D.a.m	Cond.
1	Tensile strength at break	ISO 527-I	MPa	180	135
2	Tensile Modulus	ISO 527-I	MPa	10700	
3	Elongation at Break	ISO 527-I	%	2.4	
4	Flexural Strength	ISO 178	MPa	245	190
5	Flexural Modulus	ISO 178	MPa	8500	6100
6	Charpy Impact Test-Notched	ISO 179-I	kJ/m ²	12	
C	THERMAL				
1	HDT (At 0.45MPa)	ISO 75-I	°C	>255	

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Storage and Handling

SKYi Treei MU1166 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 Treei MU1166 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.