

TECHNYLSTAR™ S 218 V35

Product Datasheet - April 2010

Description

TECHNYL STAR Polyamide, reinforced with 35% of glass fibre, heat stabilized, for injection moulding. Characterized by a high fluidity of the melt.

Product Applications

Due to its outstanding flow characteristics, TECHNYL STAR S 218 V35 BLACK 31N provides a significant productivity improvement and allows more freedom in mould design and part design versus standard polyamide solutions.

This product is available in black .

Processing

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,15% with a dehumidified air drying equipment at approx 80°C.

Recommended moulding conditions :

- Barrel temperatures : - feed zone 220 - 225°C
- compression zone 225 - 235°C
- front zone 235 - 245°C

Mould temperatures 80°C

For more detailed information , please refer to the technical sheet "Injection moulding".

Safety

Please refer to the Safety Data Sheet 208QHURK8FS



TECHNYLSTAR TM S 218 V35

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
Physical				
Water absorption (24 h at 23°C)	ISO 62	%	0.90	-
Density	ISO 1183-A	g/cm3	1.41	-
Molding shrinkage Parallel (1) (RHODIA-EP)	RHODIA-EP	%	0.30	-
Molding shrinkage normal or perpendicular (1) (Rhodia EP)	RHODIA-EP	%	0.53	-
Molding Shrinkage Isotropy (Rhodia EP)	RHODIA-EP		0.42	-
Mechanical				
Tensile modulus	ISO 527 type 1 A	MPa	10700	7400
Elongation at break	ISO 527 type 1 A	%	3	4.5
Tensile strength at break	ISO 527 type 1 A	MPa	195	115
Flexural modulus	ISO 178	MPa	10000	6200
Flexural maximum stress	ISO 178	MPa	295	195
Charpy notched impact strength	ISO 179/1eA	kJ/m2	13	19
Charpy unnotched impact strength	ISO 179/1eU	kJ/m2	75	80
Izod notched impact strength	ISO 180/1A	kJ/m2	13	16
Izod unnotched impact strength	ISO 180/1U	kJ/m2	75	80
Flamability				
Flammability UL 94 (Thickness 1,6 mm)	ISO 1210/UL 94		HB	-
Glow wire flammability index (thickness = 1,6)	IEC 60695-2-12	°C	650	-
Thermal				
Melting Temperature	ISO 11357	°C	222	-
Heat deflection temperature, 1,8 Mpa	ISO 75/Af	°C	210	-
Specific				
Spiral length vs standard PA	Rhodia	%	200	-

Identification Code : >PA6-GF35<

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