



TECHNICAL DATA SHEET

TECHNYL STAR S 218 V35 NC

TECHNYL STAR S 218 V35 NC is based on a patented high flow polyamide 6 resin (TechnylStar), heat stabilized, reinforced with 35% of glass fibre, for injection moulding. Due to its outstanding flow caracteristics, this grade provides a significant productivity improvement and allows more freedom in mould and part design versus a standard polyamide solutions.

General

Feature	Heat-aging stabilized Excellent surface finish	Very high flow
Polymer type	PA6 (Polyamide 6)	
Processing technology	Injection molding	
Certification	RoH\$ EC 1907/2006 (REACH)	UL-Yellow Card
Applications	Consumer good application Industrial Applications PC / laptop / tablet	home & office furniture General Purpose
Colors available	Black	Natural
Forms	Pellets	

Product identification

|--|

Physical properties				
Density		ISO 1183	g/cm³	1.41
Water absorption	24 hr, 23°C	ISO 62	%	0.9
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.1
Molding shrinkage, normal		ISO 294-4, 2577	%	0.8





TECHNICAL DATA SHEET			TECHNYL STAR S 218 V35 NC	
	Condition			
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	МРа	11000 / 7400
Stress at break		ISO 527-1/-2	МРа	195 / 115
Strain at break		ISO 527-1/-2	%	3/4
Flexural modulus, ISO 178	2 mm/min	ISO 178	МРа	10000 / 6200
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	285 / 195
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	60 / 70
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	11 / 16
lzod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m²	75 / 80
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m²	11 / 16
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	222
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	210

Burning behaviour

UL Yellow Card availability 🗓	Click here to have access to the UL Yellow Card → QMFZ2.E44716			
Flammability, 3.0 mm	3.0 mm	UL 94		НВ
Glow-wire flammability index, GWFI, 1.5 mm	1.5 mm	IEC 60695-2-12	°C	650

^{*:} conditioned according to ISO 1110

Processing conditions

Drying temperature/time	80 °C
Suggested max moisture	0.2 %
Rear temperature	230 - 235 °C
Middle temperature	235 - 240 °C
Front temperature	240 - 245 °C
Recommended mould temperature	60 - 90 °C

Injection notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.





TECHNICAL DATA SHEET TECHNYL STAR \$ 218 V35 NC

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

Disclaimer

The information provided in this documentation corresponds to our technical knowledge at the date of its publication and do not constitute a specification. This information may be subject to revision at our discretion. Domo cannot anticipate all conditions under which this information and our products of other manufactures in combination with our products may be used. Domo accepts no responsibility for results obtained by the application of this information or for the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product or product combination for their own purposes. Unless otherwise agreed in writing, Domo sells the product without warranties. Buyers and users assume all responsibility and liability for loss or damage arising from handling and use of our products, whether used alone or in combination with other products. Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.