+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

# **TECHNYL**®



**TECHNICAL DATA SHEET** 

## **TECHNYL AX 219S V50 NC**

(Previously DOMAMID XS 66G50H1 NC)

PA66-Alloy, 50% glass fiber reinforced, heat-aging stabilized, for injection moulding, natural color

#### General

Feature	Heat-aging stabilized
Polymer type	PA66-Alloy
Processing technology	Injection molding
Certification	RoHS
Colors available	Natural
Forms	Pellets

	Condition			
Physical properties				
Density		ISO 1183	g/cm³	1.6
Humidity absorption	T=23°C, 50% RH	ISO 62	%	1.3 - 1.4
Water absorption	24 hr, 23°C	ISO 62	%	0.05 - 0.2
Water absorption, saturation			%	3.4
Molding shrinkage, parallel		ISO 294-4, 2577	%	0.05 - 0.2
Molding shrinkage, normal		ISO 294-4, 2577	%	0.15 - 0.3

Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	18500 / 17500
Stress at break	5 mm/min	ISO 527-1/-2	MPa	260 / 210
Strain at break	5 mm/min	ISO 527-1/-2	%	2.7 / 2.7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	16800 / 16100
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	385 / 350
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m²	100 / 95
Charpy impact strength, -30°C	-30°C	ISO 179/1eU	kJ/m²	85 / 80
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m²	15 / 15
Charpy notched impact strength, -30°C	-30°C	ISO 179/1eA	kJ/m²	13.5 / 13

DOMO Engineering Plastics | Technical Service TechnicalService@domo.org | www.domochemicals.com Date of issue: 03/2024

Page 1

+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)





TECHNICAL DATA SHEET			TECHNYL AX 219S V50 NO	
	Condition			
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	260
Temp. of deflection under load, 0.45 MPa	0.45 MPa	ISO 75	°C	250
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	240
Vicat softening temperature	50°C/h - 50N	ISO 306	°C	235
Electrical properties  Volume resistivity		IEC 62631-3-1	ohm.m	1E+016
Surface resistivity		IEC 62631-3-1	ohm	1E+014
Burning behaviour Flammability, 0.75 mm	0.75 mm	UL 94		НВ
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		< 100 mm/min

Test run at 23°C if not differently specified, DAM state (dry as moulded). \*: conditioned according to ISO 1110

### **Processing conditions**

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30 °C)
Suggested max moisture	0.15 %
Rear temperature	270 - 280 °C
Middle temperature	275 - 285 °C
Front temperature	285 - 305 °C
Recommended mould temperature	80 - 120 °C

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

#### **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.

DOMO Engineering Plastics | Technical Service TechnicalService@domo.org | www.domochemicals.com Date of issue: 03/2024

Page 2