

TECHNYL STAR® AF 219 V30 NC

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

TECHNYL STAR AF 219 V30 NC is a polyamide 6.6, high flow, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade has enhanced moulding behaviors and better surface aspect. It offers an excellent combination between thermal and mechanical properties. This grade restricts electrolytic corrosion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Electrical Corrosion Resistant	• High Flow	• Outstanding Surface Finish
	• Heat Stabilized - Organic	• Low Halogen Content	
Uses	• Automotive Applications	• Electrical/Electronic Applications	• Pulleys
	• Connectors	• General Purpose	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66,GF30,MH,S14-100		
Resin ID (ISO 1043)	• PA66-GF30		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.95	--	%	
Flow	0.28	--	%	
Water Absorption (24 hr, 73°F)	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6	943000	psi	ISO 527-1
Tensile Stress (Break)	26800	16000	psi	ISO 527-2
Tensile Strain (Break)	2.6	7.5	%	ISO 527-2
Flexural Modulus	1.31E+6	--	psi	ISO 178
Flexural Stress	39200	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	4.8	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	29	36	ft·lb/in ²	ISO 179/1eU
Unnotched Izod Impact Strength (73°F)	24	--	ft·lb/in ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	496	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	482	--	°F	ISO 75-2/A
Melting Temperature ²	496	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 0	--		IEC 60112
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302



Processing Information

Injection	Dry Unit
Drying Temperature	176 °F
Suggested Max Moisture	0.20 %
Rear Temperature	509 to 527 °F
Middle Temperature	518 to 536 °F
Front Temperature	536 to 554 °F
Mold Temperature	140 to 194 °F

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.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

