

TECHNYL® MAX AX 219 XV65 NC

DOMO Engineering Plastics - Polyamide 66 Alloy

General Information

Product Description

TECHNYL MAX AX 219 XV65 NC is a high performance structural polyamide grade, heat stabilized with increased flowability, low warpage and high transversal stiffness, for injection moulding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 65% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Surface Finish • Heat Stabilized - Organic	• High Stiffness • Low Warpage	
Uses	• Automotive Applications • Consumer Applications	• Electrical/Electronic Applications • Industrial Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66-Alloy,GF65,MH,S14-250		
Resin ID (ISO 1043)	• PA66-Alloy,GF65		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.78	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption (24 hr, 73°F)	0.30 to 0.40	--	%	ISO 62
Water Absorption (Saturation, 73°F)	2.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.1 to 1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3.63E+6	3.55E+6	psi	ISO 527-1
Tensile Stress (Break)	39200	36300	psi	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.6	7.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	36	33	ft·lb/in ²	ISO 179/1eU
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302

Processing Information

Injection	Dry Unit
Drying Temperature	167 to 185 °F
Drying Time	2.0 to 4.0 hr
Dew Point	< -22 °F
Suggested Max Moisture	0.20 %
Processing (Melt) Temp	536 to 581 °F
Mold Temperature	194 to 248 °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.

