

TECHNYL® MAX AX 219 V60 BK

DOMO Engineering Plastics - Polyamide 66 Alloy

General Information

Product Description

*Previously TECHNYL XA 2246 BK

TECHNYL MAX AX 219 V60 BK is a high performance structural grade, with high stiffness and good surface finish.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Surface Finish	• Heat Stabilized	
	• Heat Aging Resistant	• High Stiffness	
Uses	• Automotive Applications	• Electrical/Electronic Applications	
	• Consumer Applications	• Industrial Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66-Alloy,GF60,MH,S14-220		
Resin ID (ISO 1043)	• PA66-Alloy,GF60		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.72	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30 to 0.50	--	%	
Flow	0.10 to 0.20	--	%	
Water Absorption (24 hr, 73°F)	3.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3.34E+6	3.19E+6	psi	ISO 527-1
Tensile Stress (Break)	37700	34100	psi	ISO 527-2
Tensile Strain (Break)	2.4	2.4	%	ISO 527-2
Flexural Modulus	2.90E+6	2.76E+6	psi	ISO 178
Flexural Stress	62400	54400	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	8.1	--	ft·lb/in ²	
73°F	7.6	7.1	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	45	--	ft·lb/in ²	
73°F	45	45	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	473	--	°F	ISO 75-2/A
Vicat Softening Temperature	464	--	°F	ISO 306
Melting Temperature ²	504	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method



Surface Resistivity	1.0E+14	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+16	--	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
Flame Rating (0.030 in)	HB	--		UL 94

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 %	
Rear Temperature			536 to 554 °F	
Middle Temperature			545 to 563 °F	
Front Temperature			545 to 581 °F	
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.				
² 10°C/min				

