

TECHNYL® AX 219L2 V50 Bk B

DOMO Engineering Plastics - Polyamide 66 Alloy

General Information

Product Description

Polyamide 66-Alloy, 50% glass fiber reinforced, heat-aging stabilized, UV stabilized, for injection moulding. For America availability only.

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• Heat Stabilizer • UV Stabilizer
Features	• Good Surface Finish • Heat Stabilized • UV Stabilized • Heat Aging Resistant • High Stiffness
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding
ISO Designation (ISO 16396)	• PA66-Alloy,GF50,MHL1,S14-190
Resin ID (ISO 1043)	• PA66-Alloy,GF50

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.60	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40 to 0.60	--	%	
Flow	0.10 to 0.30	--	%	
Water Absorption (Saturation, 73°F)	4.0	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.54E+6	1.89E+6	psi	ISO 527-1
Tensile Stress (Break)	34800	24700	psi	ISO 527-2
Tensile Strain (Break)	2.4	3.7	%	ISO 527-2
Flexural Modulus	2.20E+6	1.75E+6	psi	ISO 178
Flexural Stress	50800	39900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	5.9	5.9	ft·lb/in ²	
73°F	5.7	6.7	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	36	31	ft·lb/in ²	
73°F	43	36	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	491	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	471	--	°F	ISO 75-2/A
Melting Temperature ²	504	--	°F	ISO 11357-3
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 %
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	158 to 212 °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

