

TECHNYL® SAFE AX 219FC V50 BK

DOMO Engineering Plastics - Polyamide 66 Alloy

General Information

Product Description

*Previously TECHNYL XA 2206 BK

TECHNYL SAFE AX 219FC V50 BK is designed to be used in moulded part requiring high stiffness, dimensional stability, good surface finish, low warpage in consumer & industrial goods as well as appliances in contact with food. The horizontal flammability for thickness 3.2mm and 1.6mm is HB40.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Additive	• Heat Stabilizer
Features	• Food Contact Acceptable • Heat Stabilized - Organic • Good Surface Finish • High Stiffness
Uses	• Appliances • Industrial Applications • Consumer Applications • White Goods & Small Appliances
Agency Ratings	• EC 1907/2006 (REACH) • FDA Food Contact • EU Food Contact • GB Food Contact
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60 to 0.70	--	%	
Flow	0.20 to 0.30	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.61E+6	2.32E+6	psi	ISO 527-1
Tensile Stress (Break)	37700	29000	psi	ISO 527-2
Tensile Strain (Break)	2.5	3.2	%	ISO 527-2
Flexural Modulus	2.10E+6	1.96E+6	psi	ISO 178
Flexural Stress	53700	43500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.1	7.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	50	40	ft·lb/in ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ²	500	--	°F	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
Flame Rating				UL 94
0.06 in	HB	--		
0.12 in	HB	--		

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.

² 10°C/min

