

TECHNYL® MAX A 219 XV50 GN 6079

DOMO Engineering Plastics - Polyamide 66 Alloy

General Information

Product Description

*Previously DOMAMID XS 66V50H1 GN66079

PA66-Alloy, 50% fiber reinforced, heat-aging stabilized, for injection moulding

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Heat Stabilizer		
Features	• Heat Stabilized - Organic	• 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,F50,MH,S14-190		
Resin ID (ISO 1043)	• PA66-Alloy-F50		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	0.60	%	ISO 62
Water Absorption (Saturation, 73°F)	4.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.54E+6	psi	ISO 527-1
Tensile Stress (Break)	29000	psi	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	2.18E+6	psi	ISO 178
Flexural Stress	43500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	473	°F	ISO 75-2/A
Melting Temperature ²	504	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+10	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	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	Nominal Value	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	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

