

TECHNYL® SAFE A 216FC S30 BK

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

*Previously DOMAMID 66B30FC

TECHNYL SAFE A 216FC S30 BK is a polyamide 66, 30 % glass beads reinforced, food contact approved for injection moulding. Designed to be used in moulded parts requiring excellent surface finish, low warpage and food contact compliance in industrial consumer good applications as well as appliance applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight		
Features	• Food Contact Acceptable	• Low Warpage	• Outstanding Surface Finish
Uses	• Appliances • Construction Applications	• Consumer Applications • Electrical/Electronic Applications	• Industrial Applications
Agency Ratings	• EU Food Contact	• FDA Food Contact	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66,GB30,M,S14-050		
Resin ID (ISO 1043)	• PA66-GB30		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	100	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.90 to 1.1	%	
Flow	0.80 to 1.0	%	
Viscosity Number (96% H ₂ SO ₄ (Sulphuric Acid))	145	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	667000	psi	ISO 527-1
Tensile Stress (Break)	10900	psi	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	566000	psi	ISO 178
Flexural Stress	17400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	13	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	455	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	203	°F	ISO 75-2/A
Vicat Softening Temperature	464	°F	ISO 306
Melting Temperature ²	504	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	ohms·m	IEC 62631-3-1



Comparative Tracking Index (CTI)	PLC 1	IEC 60112
Comparative Tracking Index	500 V	IEC 60112
Flammability	Nominal Value	Unit
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
Processing (Melt) Temp	500 to 554	°F
Mold Temperature	176 to 212	°F

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 10°C/min

