

TECHNYL® SAFE A 216FC V30 NC

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

*Previously TECHNYL A 216 V30 NATURAL FA

TECHNYL SAFE A 216FC V30 NC is a polyamide 66, 30% glass fiber reinforced, food contact approved for injection moulding. Designed to be used in moulded parts requiring an excellent combination of thermal and mechanical properties and food contact compliance in industrial consumer good as well as appliances applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Food Contact Acceptable		
Uses	• Appliances • Construction Applications	• Consumer Applications • Electrical/Electronic Applications	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)	• UL 94	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-GF30		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	0.80	--	%	ISO 62
Water Absorption (Saturation, 73°F)	5.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6	1.03E+6	psi	ISO 527-1
Tensile Stress (Break)	27600	18100	psi	ISO 527-2
Tensile Strain (Break)	3.0	6.5	%	ISO 527-2
Flexural Modulus	1.32E+6	921000	psi	ISO 178
Flexural Stress	40600	28300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.2	6.7	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	36	43	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	5.7	7.1	ft·lb/in ²	ISO 180/1A
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)	491	--	°F	ISO 75-2/A
Melting Temperature ²	504	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	1000	--	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 5	--		IEC 60112
Comparative Tracking Index	22.0	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
Flame Rating				UL 94



0.030 in	HB	--	
0.06 in	HB	--	
0.12 in	HB	--	
Oxygen Index	23	--	%

Processing Information			
Injection			Dry Unit
Drying Temperature			176 °F
Suggested Max Moisture			0.20 %
Rear Temperature			518 to 536 °F
Middle Temperature			527 to 545 °F
Front Temperature			536 to 554 °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			
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- ¹ Typical properties: these are not to be construed as specifications.
- ² 10°C/min

