

TECHNYL® SLIDE A 216 V30 Y17 N NC

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

*Previously TECHNYL A 216 V30 Y17 N NATURAL

TECHNYL SLIDE A 216 V30 Y17 N NC is a polyamide 66, reinforced with 30% of glass fibre, modified with molybdenum disulphide and graphite, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties. This grade has a low friction coefficient.

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	• Low Friction	• Wear Resistant	
Uses	• Automotive 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
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.35	--	%	
Water Absorption (24 hr, 73°F)	0.75	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.57E+6	1.04E+6	psi	ISO 527-1
Tensile Stress (Break)	29000	19100	psi	ISO 527-2
Flexural Modulus	1.32E+6	943000	psi	ISO 178
Flexural Stress	42100	31000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	5.7	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	37	40	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	4.8	5.7	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	491	--	°F	ISO 75-2/A
Melting Temperature ²	505	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	8.0E+14	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	760	--	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 0	--		IEC 60112
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
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

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

