

TECHNYL® B 316 NC

DOMO Engineering Plastics - *Polyamide 66/6 Copolymer*

General Information

Product Description

*Previously TECHNYL FE 50221 AL

TECHNYL B 316 NC is an unreinforced copolyamide 66/6, high viscosity, for injection moulding. This grade is particularly suitable for medium and large thickness parts where high characteristics are required (impact, vibration), i.e: plastic insulators for railway bindings and crossbar / handles.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Surface Finish	• High Impact Resistance	
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66/6		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	435000	160000	psi	ISO 527-1
Tensile Stress (Break)	7250	7250	psi	ISO 527-2
Tensile Strain (Break)	50	400	%	ISO 527-2
Flexural Modulus	377000	116000	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	19	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	2.4	17	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	153	--	°F	ISO 75-2/A
Melting Temperature ²	468	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	660	--	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 1	--		IEC 60112
Comparative Tracking Index	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.06 in)	HB	--		UL 94

Processing Information

Injection	Dry Unit
Drying Temperature	176 °F
Suggested Max Moisture	0.20 %
Rear Temperature	482 to 500 °F
Middle Temperature	491 to 509 °F
Front Temperature	509 to 527 °F
Mold Temperature	140 to 176 °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

