

TECHNYL® A 216M NC

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

*Previously DOMAMID 6611 NC

Polyamide 66, impact modified, for injection moulding, natural color

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Impact Modifier		
Features	• Impact Modified		
Uses	• Consumer Applications	• Industrial Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66,MP,S14-030		
Resin ID (ISO 1043)	• PA66-I		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4 to 1.6	--	%	
Flow	1.2 to 1.4	--	%	
Water Absorption (Saturation, 73°F)	7.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	392000	196000	psi	ISO 527-1
Tensile Stress (Yield)	10200	7250	psi	ISO 527-2
Tensile Strain (Break)	50	50	%	ISO 527-2
Flexural Modulus	363000	--	psi	ISO 178
Flexural Stress	13100	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.1	12	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	No Break	No Break		
73°F	No Break	No Break		
Notched Izod Impact Strength (73°F)	6.7	11	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	No Break	No Break		ISO 180/1U
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	--		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	356	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	149	--	°F	ISO 75-2/A
Vicat Softening Temperature	455	--	°F	ISO 306
Melting Temperature ²	504	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 62631-3-2



Volume Resistivity	1.0E+16	--	ohms·m	IEC 62631-3-1
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
Flame Rating (0.030 in)	HB	--		UL 94

Processing Information				
Injection			Dry	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			518 to 554	°F
Mold Temperature			104 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

