

TECHNYL® B 216 V30 NC

DOMO Engineering Plastics - Polyamide 66/6 Copolymer

General Information

Product Description

TECHNYL B 216 V30 NC is a Copolyamide 66/6, reinforced with 30% of glass fibre, for injection moulding. This grade offers an excellent combination between impact resistance, rigidity, thermal resistance and surface appearance.

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	• Good Surface Finish		
Uses	• Consumer Applications • Electrical/Electronic Applications	• General Purpose • Handles	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)	• UL 94	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66/6,GF30,M,S14-100		
Resin ID (ISO 1043)	• PA66/6-GF30		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90 to 1.0	--	%	
Flow	0.0 to 0.30	--	%	
Water Absorption (24 hr, 73°F)	0.90 to 1.0	--	%	ISO 62
Water Absorption (Saturation, 73°F)	6.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6	812000	psi	ISO 527-1
Tensile Stress (Break)	26800	16700	psi	ISO 527-2
Tensile Strain (Break)	3.0	6.9	%	ISO 527-2
Flexural Modulus	1.10E+6	682000	psi	ISO 178
Flexural Stress	34100	20300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.2	7.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	38	44	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	5.2	9.0	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	437	--	°F	ISO 75-2/A
Melting Temperature ²	468	--	°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	760	--	V/mil	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
Flame Rating (0.06 in)	HB	--		UL 94
Oxygen Index	23	--	%	

Processing Information



Injection	Dry Unit
Drying Temperature	176 °F
Suggested Max Moisture	0.20 %
Rear Temperature	491 to 509 °F
Middle Temperature	500 to 518 °F
Front Temperature	518 to 536 °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

