

TECHNYL® B 218L V30 BK 44N

DOMO Engineering Plastics - Polyamide 66/6 Copolymer

General Information

Product Description

TECHNYL B 218L V30 BK 44 N is a copolyamide 66/6, reinforced with 30% of glass fibre, heat stabilized with improved UV ageing resistance, for injection moulding. This grade offers an excellent combination of thermal and mechanical properties, good surface aspect and good UV resistance.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Good Surface Finish • Good Weather Resistance	• Heat Aging Resistant • Heat Stabilized	• UV Stabilized
Uses	• Consumer Applications	• Handles	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• IMDS ID 4669577/3		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66/6,GF30,MHL1,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	0.80 to 1.0	--	%	
Flow	0.20 to 0.30	--	%	
Water Absorption (24 hr, 73°F)	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.45E+6	798000	psi	ISO 527-1
Tensile Stress (Break)	26100	14500	psi	ISO 527-2
Tensile Strain (Break)	3.1	10	%	ISO 527-2
Flexural Modulus	1.20E+6	696000	psi	ISO 178
Flexural Stress	39500	24700	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	7.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	33	43	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	4.5	8.1	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	424	--	°F	ISO 75-2/A
Melting Temperature ²	468	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	3.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	890	--	V/mil	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 1	--		IEC 60112
Comparative Tracking Index	450	--	V	IEC 60112
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

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

