

TECHNYL® B 218 BK 21N

DOMO Engineering Plastics - Polyamide 66/6 Copolymer

General Information

Product Description

TECHNYL B 218 BK 21N is an unreinforced copolyamide PA 66/6, heat stabilized, medium viscosity, 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
Additive	• Heat Stabilizer		
Features	• Good Surface Finish	• Heat Aging Resistant	• Heat Stabilized
Uses	• Connectors	• Consumer Applications	• Industrial Applications
Agency Ratings	• EC 1907/2006 (REACH)	• UL 94	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• IMDS ID 4669547/2		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66/6,MH,S14-030		
Resin ID (ISO 1043)	• PA66/6		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.5	--	%	
Flow	1.5	--	%	
Water Absorption (24 hr, 73°F)	1.6	--	%	ISO 62
Water Absorption (Saturation, 73°F)	3.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	479000	138000	psi	ISO 527-1
Tensile Stress (Break)	10900	4350	psi	ISO 527-2
Tensile Strain (Break)	6.0	100	%	ISO 527-2
Flexural Modulus	450000	131000	psi	ISO 178
Flexural Stress	17400	5080	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.9	7.1	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	1.9	7.1	ft·lb/in ²	ISO 180/1A
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)	131	--	°F	ISO 75-2/A
Melting Temperature ²	468	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	--	ohms·m	IEC 62631-3-1
Electric Strength	640	--	V/mil	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	--	in/min	FMVSS 302
Glow Wire Flammability Index (0.06 in)	1200	--	°F	IEC 60695-2-12

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

