

TECHNYL® B 238 BK 21N

DOMO Engineering Plastics - *Polyamide 66/6 Copolymer*

General Information

Product Description

TECHNYL B 238 BK 21N is an unfilled copolyamide 6.6/6, impact modified, for injection moulding. This product offers an excellent notched impact resistance, even at low temperature.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Good Surface Finish	• Heat Stabilized	
	• Heat Aging Resistant	• Impact Modified	
Uses	• Connectors	• Fasteners	
	• Consumer Applications	• Industrial Applications	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• IMDS ID 20519364/1		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66/6		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	2.2	--	%	
Water Absorption (24 hr, 73°F)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	334000	131000	psi	ISO 527-1
Tensile Stress (Break)	7250	5800	psi	ISO 527-2
Tensile Strain (Break)	50	--	%	ISO 527-2
Flexural Modulus	290000	102000	psi	ISO 178
Flexural Stress	11600	3920	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	14	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	3.3	8.6	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	144	--	°F	ISO 75-2/A
Vicat Softening Temperature	329	--	°F	ISO 306
Melting Temperature ²	468	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	5.0E+15	--	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+14	--	ohms·m	IEC 62631-3-1
Electric Strength	810	--	V/mil	IEC 60243-1
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

