

TECHNYL® B 230 NC

DOMO Engineering Plastics - Polyamide 66/6 Copolymer

General Information

Product Description

TECHNYL B 230 NC 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 • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier	• Mold Release	
Features	• Good Surface Finish	• Impact Modified	
Uses	• Consumer Applications	• Industrial Applications	• Sporting Goods
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
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	2.0 to 2.1	--	%	
Flow	1.5 to 1.8	--	%	
Water Absorption (24 hr, 73°F)	1.3 to 1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	334000	102000	psi	ISO 527-1
Tensile Stress (Yield)	8700	6530	psi	ISO 527-2
Tensile Stress (Break)	7250	5080	psi	ISO 527-2
Tensile Strain (Yield)	5.0	12	%	ISO 527-2
Tensile Strain (Break)	50	250	%	ISO 527-2
Flexural Modulus	290000	87000	psi	ISO 178
Flexural Stress	11600	7980	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	2.4	--	ft·lb/in ²	
73°F	3.8	14	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/1A
-22°F	1.9	--	ft·lb/in ²	
73°F	3.3	9.5	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	365	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	144	--	°F	ISO 75-2/A
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+16	--	ohms·m	IEC 62631-3-1
Electric Strength	510	--	V/mil	IEC 60243-1
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 (0.06 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

