



PRODUCT DATA SHEET

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4MID 9B20000

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4MID 9B20000 is a general purpose, unfilled injection moulding grade of nylon 6.

Technical Data:**General Properties:**

Property	Test Procedure	Units	Value Dry - (Cond.)
Shrinkage	With Flow	%	1.4
Specific Gravity	ISO 1183	g/cm ³	1.12
Water Absorption (24Hrs - 50% RH, 23°C)	ISO 62	%	2.5

Thermal Properties:

Property	Test Procedure	Units	Value Dry - (Cond.)
Deflection Temperature @ 0.45 Mpa	ISO 75	°C	160
Deflection Temperature @ 1.8 Mpa	ISO 75	°C	65
Melt Temperature - 10 K/min	ISO 11357-1/-3	°C	223
Vicat Softening Temperature - 50N	ISO 306	°C	170

Mechanical Properties:

Property	Test Procedure	Units	Value Dry - (Cond.)
Charpy Impact Strength - Notched, +23°C	ISO 179B	kJ/m ²	9.5
Charpy Impact Strength - Notched, -30°C	ISO 179	kJ/m ²	8
Charpy Impact Strength - Un-notched, +23°C	ISO 179/1eU	kJ/m ²	N.B
Charpy Impact Strength - Un-notched, -30°C	ISO 179/1eU	kJ/m ²	N.B
Flexural Modulus, 2mm/min, +23°C	ISO 178	MPa	2500
Flexural Strength @ Break, 2mm/min, +23°C **	ISO 178	MPa	75
Izod Impact, Notched, +23°C	ISO 180/1A	kJ/m ²	8
Izod Impact, Notched, -20°C	ISO 180/1A	kJ/m ²	6
Tensile Modulus 5mm/min, +23°C	ISO R 527	MPa	2700
Tensile Stress @ Break 5mm/min, +23°C **	ISO R 527	MPa	75

Electrical / Flammability Properties:

Property	Test Procedure	Units	Value Dry - (Cond.)
Surface Resistivity	IEC 60093	Ω	1X10 ¹³
Volume Resistivity	IEC 60093	Ω.cm	1X10 ¹⁵
Flammability Rating 1.6mm	UL 94 (Internal)	--	HB
Comparative Tracking Index	IEC 60112	V	600

**** At Break *** At Conventional Deflection**

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Test Values: Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.



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