

# Genestar™ N1000A-M41

Polyamide 9T

Kuraray Co., Ltd.

## Message:

Genestar N1000A-M41 is standard unreinforced injection grade.

Main feature of N1000A-M41 are;

Low water absorption

Chemical resistance

Examples of application are;

Friction and wear application

Gear & Wheel

General Information	
Features	Good chemical resistance Heat resistance, high Low or no water absorption
Uses	Wheels Gear Application in Automobile Field
Appearance	Black Natural color
Processing Method	Injection molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Tensile Modulus vs. Temperature (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.5	%	ISO 294-4
Flow direction	1.4	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	85.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Coefficient of Friction <sup>1</sup>	0.45		JIS K7218
Abrasion Loss <sup>2</sup>	200.0	mg	JIS K7218
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	5.0	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/Af
Glass Transition Temperature	125	°C	
Melting Temperature	300	°C	ISO 11357-3

#### Additional Information

Critical PV value : 850 kg/cm<sup>2</sup>\*cm/sec (JIS K7218-A)

#### NOTE

1. P=10kgf/cm<sup>2</sup>
2. P=10kgf/cm<sup>2</sup>

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

