

Genestar™ N1001A-M41

Polyamide 9T

Kuraray Co., Ltd.

Message:

Genestar N1001A-M41 is low friction unreinforced injection grade.

Main feature of N1001A-M41 are;

Low friction coefficient

High impact strength

Examples of application are;

Friction and wear application

Gear & Wheel

General Information			
Features	Low friction coefficient		
	Impact resistance, high		
	Heat resistance, high		
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	1.11	g/cm ³	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	80.0	MPa	ISO 527-2
Tensile Strain (Break)	12	%	ISO 527-2
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Coefficient of Friction ¹	0.15		JIS K7218
Abrasion Loss ²	20.0	mg	JIS K7218
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	9.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	°C	ISO 75-2/Af
Glass Transition Temperature	125	°C	
Melting Temperature	300	°C	ISO 11357-3
Additional Information			
Critical PV value : 1000 kg/cm ² *cm/sec (JIS K7218-A)			
NOTE			
1.	P=10kgf/cm ²		
2.	P=10kgf/cm ²		

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WECHAT