

Genestar™ N1002A-M41

Polyamide 9T

Kuraray Co., Ltd.

Message:

Genestar N1002A-M41 is low friction unreinforced injection grade.

Main feature of N1002A-M41 are;

Low friction coefficient

Low wear

Examples of application are;

Friction and wear application

Gear & Wheel

General Information			
Features	Low friction coefficient		
	Good wear resistance		
	Heat resistance, high		
Uses	Wheels		
	Gear		
	Application in Automobile Field		
Appearance	Black		
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	1.17	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)	6.0	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Coefficient of Friction ¹	0.25		JIS K7218
Abrasion Loss ²	5.0	mg	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	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 : 1150 kg/cm²*cm/sec (JIS K7218-A)

NOTE

1. P=10kgf/cm²
2. P=10kgf/cm²

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