

Genestar™ G1352A-M41

Polyamide 9T

Kuraray Co., Ltd.

Message:

Genestar G1352A-M41 is low friction reinforced injection grade.

Main feature of G1352A-M41 are;

Low friction coefficient

Abrasion resistance

Examples of application are;

Friction and wear application

Gear & Wheel

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight
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	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.80	%	ISO 294-4
Flow direction	0.20	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	200	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	10700	MPa	ISO 178
Flexural Stress	290	MPa	ISO 178
Coefficient of Friction ¹	0.30		JIS K7218
Abrasion Loss ²	10.0	mg	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	13	kJ/m ²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	270	°C	ISO 75-2/Af
Glass Transition Temperature	125	°C	
Melting Temperature	300	°C	ISO 11357-3
Additional Information			
Critical PV value : 1500 kg/cm ² *cm/sec (JIS K7218-A)			
NOTE			
1.	P=10kgf/cm ²		
2.	P=10kgf/cm ²		

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