

Genestar™ G1300A-M41

Polyamide 9T

Kuraray Co., Ltd.

Message:

Genestar G1300A-M41 is a 30% glass reinforced injection grade.

Main feature of G1300A-M41 are;

Heat resistance

Chemical resistance

Examples of application are;

Gears and bearing retainers

Intercooler tank and turbo duct pipe

General Information			
UL YellowCard	E90350-252511		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good chemical resistance		
	Heat resistance, high		
Uses	Gear		
	Piping system		
	Application in Automobile Field		
	Water tank		
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	1.37	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.90	%	ISO 294-4
Flow direction	0.30	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	190	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	8800	MPa	ISO 178
Flexural Stress	270	MPa	ISO 178
Coefficient of Friction ¹	0.40		JIS K7218

Abrasion Loss ²	40.0	mg	JIS K7218
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	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 : 1025 kg/cm ² *cm/sec (JIS K7218-A)			
NOTE			
1.	P=10kgf/cm ²		
2.	P=10kgf/cm ²		

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