

Genestar™ N1001D-U03

Polyamide 9T

Kuraray Co., Ltd.

Message:

Genestar N1001D-U03 is standard unreinforced extrusion grade.

Main feature of N1001D-U03 are;

Outstanding fuel barrier

Heat resistance

Examples of application are;

Multi-layered fuel tube

General Information			
Features	Heat resistance, high		
Uses	Application in Automobile Field		
	Fuel line		
Appearance	Black		
Processing Method	Extrusion		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Tensile Modulus vs. Temperature (ISO 11403-1)		

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.7	%	ISO 294-4
Flow direction	1.5	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	> 20	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Coefficient of Friction ¹	0.15		JIS K7218
Abrasion Loss ²	170.0	mg	JIS K7218

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	17	kJ/m ²	ISO 179/1eA
23°C	No Break		ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°C	ISO 75-2/Af
Glass Transition Temperature	125	°C	

Melting Temperature	264	°C	ISO 11357-3
Additional Information			
Critical PV value : 650 kg/cm ² *cm/sec (JIS K7218-A)			
NOTE			
1.	P=10kgf/cm ²		
2.	P=10kgf/cm ²		

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