



TECHNYL[®] 1011SG3

Description	Polyamide 6, Glass fiber 15% reinforced, Improved impact strength for injection molding
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Applications	TECHNYL 1011SG3 is used in all sectors of industry, offering an excellent balanced impact and mechanical properties.
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This grade is used for

- Solenoid valve, Torsion bar, Out sole

This product is available in Black color.(Other colors will be discussed)

Processing	The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to final moisture content less than 0.2% with a dehumidified air drying equipment at approx. 80°C.
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Recommended molding conditions :

Barrel temperatures :	- feed zone	240°C
	- compression zone	245°C
	- front zone	250°C

Mold temperatures :	60 ~ 80°C
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For more detailed information, please refer to the technical sheet "Injection molding".

Safety	Please refer to the Material Safety Data Sheet.
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TECHNYL[®] 1011SG3

Main Properties

Measurements at 23°C

The values of properties are for black grade.

Properties	Standards	Unit	Values	
			RH 0-23°C	RH 50-23°C
Physical	Moisture absorption 24h at 23°C	ASTM D570	%	-
	Specific gravity	ASTM D792	-	1.20
	Mould shrinkage (flow)	Rhodia-EP	%	0.6~1.0
	Mould shrinkage (transverse)	Rhodia-EP	%	0.8~1.2
Mechanical	Tensile strength at yield	ASTM D638	MPa	100
	Elongation at break	ASTM D638	%	5
	Flexural stress at break	ASTM D790	MPa	150
	Flexural modulus	ASTM D790	MPa	4500
	Izod notched impact strength	ASTM D256	J/m	150
	Rockwell hardness	ASTM D786	R scale	120
Thermal	Melting point	ASTM D3418	°C	222
	Heat Deflection Temperature 4.6kgf/cm ²	ASTM D648	°C	212
	Heat Deflection Temperature 18.6kgf/cm ²	ASTM D648	°C	200
	Coefficient of linear thermal expansion	ASTM D696	10 ⁻⁵ . °C	-
	Flammability	UL 94	HB	-
Electrical	Dielectric strength	ASTM D149	kV/mm	-
	Dissipation factor 1MHz	ASTM D150	-	-
	Volume resistivity	ASTM D257	E14.ohm.cm	-
	Arc resistance (tungsten electrode)	ASTM D495	Second	-
Specific				

Identification code

> PA6-GF15% <

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