



TECHNYL 1021GF6 BLACK 0179

Description

TECHNYL 1021GF6 Black 0179 is a polyamide 6, 30% glass fiber reinforced, for injection molding.
This product is available in black color.

Benefits

The product offers an excellent combination between thermal and mechanical properties.

Applications

The product is used in all sectors of industry.

Key Properties

Mechanical performance

Regional Availability

Asia / Pacific

Properties

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Water absorption(24h at 23°C)	ISO 62	%	0,95	
Density	ISO 1183/A	g/cm3	1,36	
Molding shrinkage Parallel	RHODIA	%	0,35	
Molding shrinkage normal or perpendicular	RHODIA	%	0,65	
Mechanical				
Tensile strength at yield	ASTM D-638	MPa	175	
Elongation at yield				
Elongation at break	ASTM D-638	%	3,50	
Flexural modulus	ASTM D-790	MPa	8900	
Flexural maximum stress	ASTM D-790	MPa	260	
Izod notched impact strength	ASTM D256	J/m	130	
Rockwell Hardness	ASTM D-786	R scale	121	
Flammability				
Flammability	ISO 1210 / UL94		HB	
Glow Wire Flammability Index (Thickness: 1,6 mm)	ISO 60695-2-12	°C	650	
Thermal				
Melting Temperature	ISO 11357	°C	222	
Heat deflection temperature (1,82 MPa)	ASTM D-648	°C	210	
Coef of Linear thermal expansion parallel (23°C to 85°C)	ISO 11359	E-5/°C	3,2	
Electrical				
Comparative tracking index (Sol A)	IEC 60112	V	550	475
Dielectric strength	IEC 60243	kV/mm		22
Dissipation factor	IEC 60250		0,020	0,090
Surface resistivity	IEC 60093	Ohm	1E 13	1E 11
Volume resistivity	IEC 60093	Ohm/cm	1E 15	1E 11

d.a.m. = dry as moulded

Cond = conditioned

Disclaimer

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Processing Guide

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment.

Recommended Maximum water content: 0,2 %

Drying conditions: 80 °C

Recommended moulding conditions

Barrel Temperatures:

- feed zone	230 - 235 °C
- compression zone	235 - 245 °C
- mixing zone	245 - 250 °C
Mould temperatures:	80 - 100 °C

Steel advice for tools For glass fibers reinforced polyamide, Rhodia recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: Z38CDV5W or Z160CDV12.

Safety information

Detailed information regarding safety are available on the safety data sheet (SDS).
SDS is sent with the first material order, or available by contacting our customer services

Regulations compliance

Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC

This grade complies with RoHS directive 2002/95/EC

Unless specified, this grade is not suitable for food contact, medical devices or toy applications

Customer services

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

You can find more information on Rhodia Product range on our internet product finder at the following address:

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