



TECHNYL 2412GFH8 BLACK

Description

TECHNYL® 2412GFH8 BLACK is a Polyamide 66, reinforced with 40% of glass fiber, for injection molding.

This product is available in black color.

Benefits

This grade offers an excellent combination between thermal stability and mechanical properties.

Applications

It is used in all sectors of industry, widely used for:

- Hot water distributor pipe, Motor holder for boiler

Key Properties

General purpose
Excellent combination between thermal & mechanical properties

Regional Availability

Asia / Pacific

Properties

Typical values of properties are for black grades

	Standards	Unit	Values	
			d.a.m.	Cond.
Physical				
Water absorption(24h at 23°C)	ASTM D-792	%	0,70	
Density	ASTM D-792	g/cm3	1,46	
Molding shrinkage Parallel	RHODIA	%	0,40	
Molding shrinkage normal or perpendicular	RHODIA	%	0,70	
Mechanical				
Tensile strength at yield	ASTM D-638	MPa	205	
Elongation at break	ASTM D-638	%	3	
Flexural modulus	ASTM D-790	MPa	11000	
Flexural maximum stress	ASTM D-790	MPa	305	
Izod notched impact strength	ASTM D256	J/m	140	
Flammability				
Flammability (Thickness: 0,8 mm)	ISO 1210 / UL94			HB
Limit Oxygen Index	ISO 4589			23
Thermal				
Melting Temperature	ISO 11357	°C	262	
Heat deflection temperature (1,82 MPa)	ASTM D-648	°C	255	
	ISO 75/Af	°C	252	
Coef of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5/°C	2	
Electrical				
Comparative tracking index (Sol A)	IEC 60112	V	450	450
Dielectric strength	IEC 60243	kV/mm	35	30
Dissipation factor	IEC 60250		0,010	0,110
Surface resistivity	IEC 60093	Ohm	6E 14	1E 12
Volume resistivity	IEC 60093	Ohm/cm	1E 15	1E 13
Specific				
Identification code				PA66-GF33

d.a.m. = dry as moulded
Cond = conditioned

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 270 - 280 °C
- compression zone 275 - 285 °C
- mixing zone 280 - 290 °C

Mould temperatures: 70 - 100 °C

Steel advice for tools For reinforced polyamide (glass fibre, glass sphere, mineral fibre...), Solvay 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.

Disclaimer

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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 Solvay Product range by on Technyl.com and the link to the product finder and brochures at the following address:

<http://www.technyl.com/en/download/brochures/index.html>