Engineering Plastics'
TECHNYL®

Product Data Sheet

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TECHNYL 2210HS BLACK

Description

TECHNYL® 2210HS BLACK is a Polyamide 66, unfilled, long-term heat stabilized, for injection molding.

This product is available in black color.

Key Properties

High fluidity
Heat stabilised

Benefits

This product offers an excellent long term thermal stability and productivity.

Applications

It is used in all sectors of industry, such as:

- Connectors, power steering reservoir tank, switch, fuel filler tube, among other applications...

Regional Availability

Asia / Pacific

More info : www.rhodia.com Tel: 00 800 55 400 600
Contact : engineeringplastics-business@eu.rhodia.com

SOLVAY

Properties

Typical values of properties are for black grades

	Standards	Unit	Values d.a.m.	Values Cond.
Physical				
Water absorption(24h at 23°C)	ISO 62	%	1,30	
Density	ASTM D-792	g/cm3	1,14	
Molding shrinkage Parallel	RHODIA	%	1,50 - 2	
Molding shrinkage normal or perpendicular	RHODIA	%	1,80 - 2	
Mechanical				
Tensile strength at yield	ASTM D-638	MPa	85	
	ISO 527 Type 1A	MPa	81	
Elongation at break	ASTM D-638	%	45	
	ISO 527 Type 1A	%	32	
Flexural modulus	ASTM D-790	MPa	3150	
	ISO 178	MPa	2900	
Flexural maximum stress	ASTM D-790	MPa	115	
	ISO 178	MPa	115	
Charpy notched impact strength	ISO 179/1eA	kJ/m2	4,9	
Izod notched impact strength	ASTM D256	J/m	70	
	ISO 180/1A	kJ/m2	5,2	
Flammability				
Flammability (Thickness: 0,8 mm)	ISO 1210 / UL94		V2	
Flammability (Thickness: 1,6 mm)	ISO 1210 / UL94		V0	
Thermal				
Melting Temperature	ISO 11357	°C	262	
Heat deflection temperature (1,8 MPa)	ASTM D-648	°C	75	
	ISO 75/Af	°C	75	
Coef of Linear thermal expansion normal or perpendicular (23°C to 85°C)	ISO 11359	E-5/°C	7	
Electrical				
Comparative tracking index (Sol A)	IEC 60112	V	600	600
Dielectric strength	IEC 60243	kV/mm	25	22
Dissipation factor	IEC 60250		0,030	0,080
Relative permittivity	IEC 60250		2,90	3,20
Surface resistivity	IEC 60093	Ohm	1E 15	1E 14
Volume resistivity	IEC 60093	Ohm/cm	1E 15	1E 13
Specific				
Identification code				PA66

	Standards	Unit	Values	
			d.a.m.	Cond.

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 265 - 275 °C
- compression zone 270 - 280 °C
- mixing zone 280 - 285 °C

Mould temperatures: 60 - 80 °C

Steel advice for tools For unfilled polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: 35NC6 or 35CD4.

Disclaimer

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