

Description

Polyamide 6, unfilled, impact modified, for injection moulding

Applications

TECHNYL® 1031CH used in all sectors of industry, offering high impact strength and good process-ability. This grade is widely used for

- Automotive industry; Control box, Clip

This product is available in natural & black color and in colors on request.

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 a final moisture content less than 0.2% with a dehumidified air drying equipment at approx. 80°C

Recommended moulding conditions :

- Barrel temperatures : - feed zone	230 - 235°C
- compression zone	235 - 245°C
- front zone	245 - 255°C
- Mould temperatures	60 - 80°C

For more detailed information, please refer to the technical sheet " Injection moulding ".

Safety

Please refer to the Material Safety Data Sheet for TECHNYL® 1031CH



Chemistry is our world, Responsibility is our way

RHODIA POLYAMIDE

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TECHNYL[®] 1031CH

* The values of properties are for natural color grade.

Characteristics	Tets method	Unit	Test result	
			d.a.m*.	Cond.**
Physical				
Moisture adsorption, 24h in water at 23°C	ISO 62	%	1.3	-
Density	ISO 1183	g/cm³	1.1	-
Mold shrinkage (longitudinal)	RHODIA-EP	%	1.2~1.5	-
Mold shrinkage (transverse)	RHODIA-EP	%	1.5~2.0	-
Mechanical				
Tensile strength at yield	ASTM D638	MPa	70	-
Elongation at break	ASTM D638	%	60	-
Flexural stress at break	ASTM D790	MPa	100	-
Flexural modulus	ASTM D790	MPa	2450	-
Izod notched impact strength	ASTM D256	J/m	120	-
Rockwell hardness	ASTM D786	R-Scale	116	-
Flammable				
UL94 Flammability	ISO 1210 / UL 94	-	HB	-
Thermal				
Melt Temperature	ISO 11357	°C	222	-
Heat Deflection Temperature 1.82 MPa	ASTM D648	°C	55	-
Heat Deflection Temperature 0.45 MPa	ASTM D648	°C	180	-
Special				
Identification code >PA6<				

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Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and Rhodia is at their disposal to supply any additional information.

* d.a.m = Dry As Moulded.

** Cond. = conditioned according ISO 1110.