TECHNYL® 1021ST

Product Data Sheet – January 2011

Description

Polyamide 6, unfilled, super tough impact modified, for injection moulding

Applications

TECHNYL® 1021ST has the highest level impact strength and balanced mechanical properties. It is suitable for all sectors industries such as,

- Bowling pin, Brake drum, Inline skate part

This product is available natural color and in colours 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	235 - 240°C
	- compression zone	245 - 250°C
	- front zone	250 - 260°C
-Mould temperatures		60 - 80°C

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

Safety

Please ref to the Material Safety Data Sheet for TECHNYL® 1021ST

RHODIA KOREA Co., LTD.
4F Poonglim bldg., 823, Yeoksam-Dong, Kangman-Gu, Seoul, 135-784 KOREA, T: +82 2 21 86 25 00 F: +82 2 34 74 73 63

TECHNYL® 1021ST

* 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	%	1.20	-
Density	ISO 1183	g/㎤	1.06	-
Mold shrinkage (longitudinal)	RHODIA-EP	%	-	-
Mold shrinkage (transverse)	RHODIA-EP	%	-	-
Mechanical				
Tensile strength at yield	ASTM D638	MPa	50	-
Elongation at break	ASTM D638	%	200	-
Flexural stress at break	ASTM D790	MPa	65	-
Flexural modulus	ASTM D790	MPa	1900	-
Izod notched impact strength	ASTM D256	J/m	1100	-
Rockwell hardness	ASTM D786	R-Scale	110	-
Flammable				
UL94 Flammability	ISO 1210 / UL 94	-	HB	-
Thermal				
Melt Temperature	ISO 11357	℃	222	-
Heat Deflection Temperature 1.82 MPa	ASTM D648	℃	50	-
Heat Deflection Temperature 0.45 MPa	ASTM D648	℃	120	-
Electrical				
Relative permitivity	IEC60250	-	3.5	4
Dissipation factor 1MHz	IEC60250	-	0.02	0.12
Volume resistivity	IEC60093	Ohm.cm	10E14	10E10
Surface resistivity	IEC60093	Ohm	10E12	10E10
Dielectric strength	IEC 60243	kV/m	-	18
Comparative tracking index sol. A	IEC60112	Volt	600	-
Specific				

Identification code **>PA6<**

* d.a.m = Dry As Moulded.
** Cond. = conditioned according ISO 1110.

RHODIA KOREA Co., LTD.
4F Poonglim bldg., 823, Yeoksam-Dong, Kangman-Gu, Seoul, 135-784 KOREA, T: +82 2 21 86 25 00 F: +82 2 34 74 73 63