

### Description

Polyamide 66, with very high impact resistance even at low temperature, for injection moulding

### Applications

TECHNYL® 2710ST is used in all sectors of industry, offering an excellent productivity.  
This grade is widely used for

- Sports and leisure applications, for shoe soles, ski components, ski and surf bindings
- Toy applications, such as, the bumper of a remote-controlled car
- Battery gasket, Fastener

This product is available in natural, black 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        | 265~270°C |
|                         | - compression zone | 270~280°C |
|                         | - front zone       | 280~290°C |
| - Mould temperatures:   |                    | 60°C      |

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

### Safety

Please refer Safety Data Sheet for TECHNYL® 2710ST.

Properties	Standards	Unit	Values	
			d.a.m*.	Cond.**
<b>Physical</b>				
Moisture absorption (24h at 23°C)	ISO 62	%	1.05	-
Specific gravity	ISO 1183	-	1.08	-
Mould shrinkage (flow)	Rhodia-EP	%	1.90	-
Mould shrinkage (transverse)	Rhodia-EP	%	1.90	-
<b>Mechanical</b>				
Tensile strength at yield	ASTM D638	MPa	50	-
Elongation at break	ASTM D638	%	70	-
Flexural stress at break	ASTM D790	MPa	70	-
Flexural modulus	ASTM D790	MPa	2200	-
Izod notched impact strength	ASTM D256	J/m	950	-
Rockwell hardness	ASTM D786	R scale	115	-
<b>Flammable</b>				
Flammability (thickness = 3.2 mm)	ISO 1210 / UL94	-	HB	-
Limit Oxygen index	ISO 4589	-	24.5	-
<b>Thermal</b>				
Melting point	ISO 11357	°C	262	-
Heat Deflection Temperature 1.82MPa	ASTM D648	°C	70	-
Heat Deflection Temperature 0.64MPa	ASTM D648	°C	222	-
Coef. of Linear thermal expansion normal or perpendicular ( 23°C to 85°C)	ASTM D696	10 <sup>-5</sup> /°C	7	-
<b>Electrical</b>				
Relative permittivity	IEC 60250	-	3.20	4
Dissipation factor	IEC 60250	-	0.02	0.06
Dielectric strength	IEC 60243	kV/mm	30	16
Volume resistivity	IEC 60093	ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	ohm	10E13	10E12
Comparative tracking index sol. A	IEC 60112	Volt	575	600
Comparative tracking index sol. B	IEC 60112	Volt	450	-

## Specific

### Identification code

>PA66<

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**ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED.**

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.

