TECHNYL® 2710ST

Product Datasheet – September 2009

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~ 80°C

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

Safety

Please refer Safety Data Sheet for TECHNYL® 2710ST.

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TECHNYL® 2710ST

* This vaules of properties for bnatural grade

Properties	Standards	Unit	Values d.a.m*.	Values Cond.**
Physical				
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	-
Mechanical				
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	-
Flammable				
Flammability (thickness = 3.2 mm)	ISO 1210 / UL94	-	HB	-
Limit Oxygen index	ISO 4589	-	24.5	-
Thermal				
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^{-5}/°C	7	-
Electrical				
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	-
Special				

Identification code **>PA66<**

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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.

Rhodia
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