TECHNYL® 2411GF6

Product Datasheet – September 2009

Description

Polyamide 66, 30% glsss fiber reinforced, for injection molding

Applications

TECHNYL® 2411GF6 used in all sectors of industry, offering an excellent combination between thermal stability and mechanical properties.

This grade is widely used for

- Automotive parts : Cooling fan, Shaft gear
- Electrical & electronic parts : Plug, Housing
- Sport, industrial, construction parts : Joint bushing, Disc

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	270~275℃
	- compression zone	275~285℃
	- front zone	285~295℃
- Mould temperatures:		80~ 100℃

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

Safety

Please refer Safety Data Sheet for TECHNYL® 2411GF6.

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RHODIA POLYAMIDE Co., LTD.
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TECHNYL® 2411GF6

* This vaules of properties for black grade

Properties	Standards	Unit	Values d.a.m*.	Values Cond.**
Physical				
Moisture absorption (24h at 23°C)	ISO 62	%	0.80	-
Specific gravity	ISO 1183	-	1.38	-
Mould shrinkage (flow)	Rhodia-EP	%	0.5	-
Mould shrinkage (transverse)	Rhodia-EP	%	0.8	-
Mechanical				
Tensile strength at yield	ASTM D638	MPa	1950	-
Elongation at break	ASTM D638	%	2	-
Flexural stress at break	ASTM D790	MPa	270	-
Flexural modulus	ASTM D790	MPa	9100	-
Izod notched impact strength	ASTM D256	J/m	120	-
Rockwell hardness	ASTM D786	R scale	121	-
Flammable				
Flammability (thickness = 1.6~3.2 mm)	ISO 1210 / UL94	-	HB	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	650	-
Glow wire flammability index (thickness = 0,8)	IEC 60695-2-12	°C	650	-
Glow wire ignition temperature (thickness = 1,6)	IEC 60695-2-13	°C	650	-
Limit Oxygen index	ISO 4589	-	23	-
Fire and smoke F index	NF F 16 101	I2, F3	2	
Thermal				
Melting point	ISO 11357	°C	262	-
Heat Deflection Temperature 1.82MPa	ASTM D648	°C	255	-
Coef. of Linear thermal expansion (23~85°C)	ASTM D696	10-5/°C	2.5	
Electrical				
Relative permittivity	IEC 60250	-	40	30
Dissipation factor	IEC 60250	-	3.75	4
Dielectric strength	IEC 60243	kV/mm	0.01	0.11
Volume resistivity	IEC 60093	ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	ohm	60E13	10E11
Comparative tracking index sol. A	IEC 60112	Volt	600	600
Comparative tracking index sol. B	IEC 60112	Volt	500	500
Special				

Identification code **>PA66-GF30<**

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

Rhodia
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