TECHNYL® 2412GHF6

Product Datasheet – September 2009

Description

Polyamide 66, reinforced with 33% of glass fiber, heat stabilized for injection molding

Applications

TECHNYL® 2412GHF6 is used in all sectors of industry, offering excellent combination between thermal stability and mechanical properties.

This grade is widely used for

- Hot water distributor pipe, Motor holder for boiler

This product is available in natural and 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 80~100°C

Recommended moulding conditions :

-Barrel temperatures :	- feed zone	270-275°C
	- compression zone	275-285°C
	- front zone	285-290°C
-Mould temperatures		80-100°C

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

Safety

Please consult the Safety Data Sheet for TECHNYL® 2412GHF6.

Rhodia
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TECHNYL® 2412GHF6

* This vaules of properties for natural color grade

Properties	Standards	Unit	Values d.a.m*.	Values Cond.**
Physical				
Moisture absorption 24h at 23°C	ASTM D792	-	0.80	-
Specific Gravity	ASTM D792	-	1.37	-
Mould Shrinkage (Parallel)	RHODIA-EP	%	0.50	-
Mould Shrinkage (Perpendicular)	RHODIA-EP	%	0.80	-
Mechanical				
Tensile stress at yield	ASTM -638	MPa	200	-
Tensile strain at break	ASTM D638	%	3.5	-
Flexural strength	ASTM D790	MPa	300	-
Flexural Modulus	ASTM D790	MPa	9700	-
Izod notched impact strength	ASTM D256	J/m	130	-
Flamability				
Flammability (0.8~3.2mm)	UL 94	-	HB	-
Glow wire flammability index (thickness = 1.6)	IEC 60695-2-12	°C	700	-
Limit Oxygen index	ISO 4589	-	23	-
Thermal				
Melt Temperature	ISO 11357	°C	262	-
Heat Deflection Temperature, 1.8 MPa	ASTM D648	°C	252	-
Coef. of Linear thermal expension normal or perpendicular (23°C to 85°C)	ISO 11359	E-5/°C	2.5	-
Electrical				
Dissipation factor	IEC 60250		0.01	0.11
Volume resistivity	IEC 60093	Ohm.cm	10E14	10E12
Surface resistivity	IEC 60093	E14.Ohm	60E13	10E11
Dielectric strength	IEC 60243	KV/mm	34	29
Comparative tracking index sol. A	ISC 60112	Volt	450	425
Comparative tracking index sol. B	ISC 60112	Volt	350	-
Special				

Identification code: **>PA66-GF33<**

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

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