

HPP & SPECIALS: NEW PRODUCTS DEVELOPED BY LATI S.p.A.



LARTON GK/400

It is a reinforced PPS with a high glass fibre and carbon fibre content.

This product was developed to meet important and specific engineering requirements, for places where fire and explosion hazards are absolutely to be avoided.

The main characteristics which the product must guarantee are:

- **Excellent flame-retardancy properties (UL 94-V0)**
- **Electric semi-conductivity**, to discharge static electricity to the ground
- **Excellent chemical resistance**, especially for a continuous contact with hydrocarbons

- **High rigidity**, to resist to explosion pressures expected at inspection
- **Low shrinkage**
- **Excellent dimensional stability**

See specific product characteristics in the attached chart

LATIOHM 75/4 PD01 G/20-V0

LATIOHM's peculiar characteristics are reported in the specific technical documentation.

This particular material is based on PBT reinforced with glass fibres and special fillers. It is the first product developed by LATI, in the LATIOHM category, which presents both a low electric resistivity and low combustibility.

Material has flame retardant properties (UL94-V0) even at low thickness.

Possible applications for this material are those fields which generally require:

- **ottimo comportamento al fuoco**
- **semiconducibilità elettrica**
- **alta rigidità e buone prestazioni meccaniche in genere**
- **buone proprietà tribologiche**
- **basso ritiro**
- **buona resistenza chimica in generale**
- **buon compromesso costo / prestazioni**

See specific product characteristics in the attached chart

LARAMID K/35

This aromatic polyamide (PPA) is reinforced with special carbon fibres and has been developed for clutch bushes for the automobile industry to be used instead of metal. The main requirements met by this product are superior **mechanical performance** (rigidity and load resistance) as well as a **good thermal conductivity** which increases heat dissipation better than other technopolymers.

The **low hygroscopicity** of the basic resin allows a good long term mechanical performance without any particular decline due to the absorption of humidity. Other important characteristics of this material are **high thermal resistance** and the **low linear thermal dilatation**.

See specific product characteristics in the attached chart

- **High rigidity**
- **Excellent thermal resistance**
- **High self-lubricating properties, even under load and at high temperatures**
- **Intrinsic self-extinguishing properties (UL94-V0)**
- **Low shrinkage and low thermal dilatation**
- **Excellent chemical resistance**

See specific product characteristics in the attached chart

LATILUB 88/50-15T G/30

PEEK glass fibre reinforced and lubricated with PTFE. This high performing product has been developed for the automotive industry.

Its characteristics can be summarised as follows:

	Density g/cm ³	Shrinkage at moulding (average) %	Resistance to tensile strenght MPa	Tensile modulus MPa	HDT (1.81 MPa) °C	Flame Retardancy UL94 0.8/1,5mm	Surface Resistivity Ohm
LARTON GK/400	1,62	0,4	190	23500	263	V0/V0	2E3
LATIOHM 75/4 PD01 G/20-V0	1,54	0,6	122	15200	206	V0/V0	1E3
LARAMID K/35	1,34	0,3	260	24000	274	HB/HB	1E2
LATILUB 88/50-15T G/30	1,62	0,7	110	12500	255	V0/V0	1E15