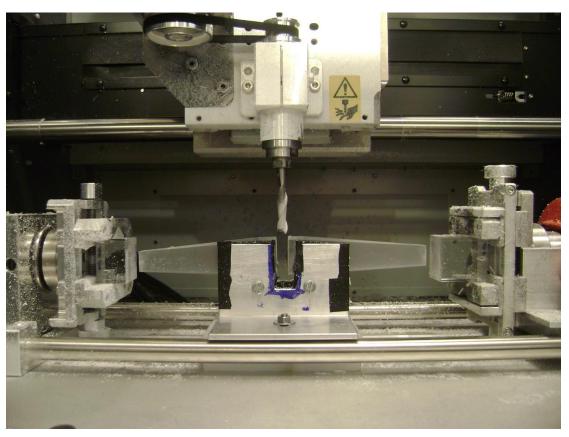
# Trapezoidal Light Guides production status. 30/05/2011

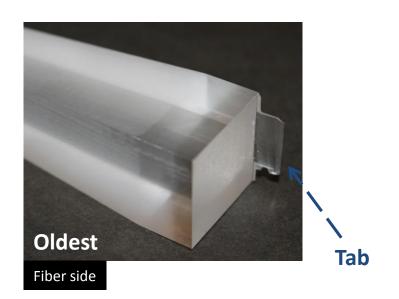
#### Clamp of centre.

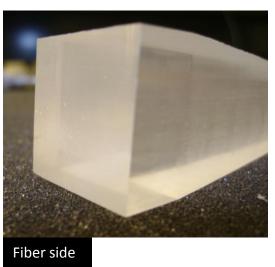
- Around 2 h to separate the LG.
- 6 LG
   have been
   separated.

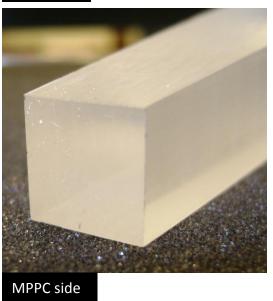


#### Result of cut.

 No tab or residual material on extreme of LG.

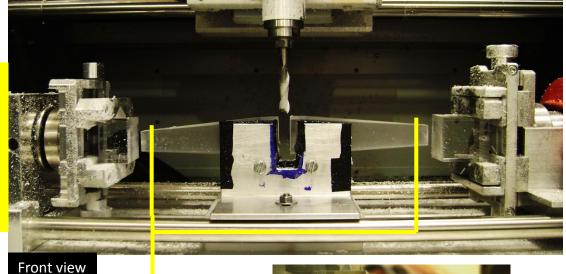


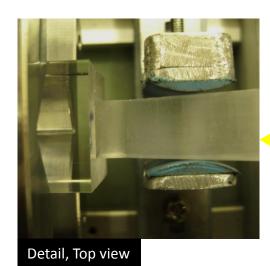




#### Clamping System

 Now, we finishing the second clamp to fix the ends of pieces and to ensure parallelism between faces.





Detail, Front view

#### LG stock material

 Just now in Chile, only one company can certify the sale of acrylic rods with optical properties but only sections of 25 x 25 mm<sup>2</sup> 2.

Sabic Polymershapes, Chile

http://www.cpchile.com/contenido.php?id\_articulo=169&id\_categoria=1



Test on acrylic pieces.

rest off dery ne preces.

5 μm

 $1 \mu m$ 





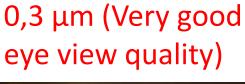
0,3 μm (Very good eye view quality)

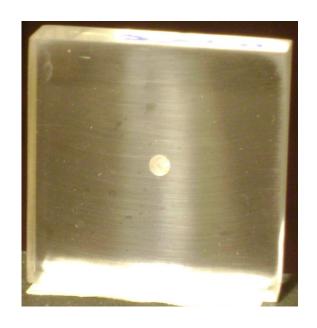


#### Test on acrylic pieces

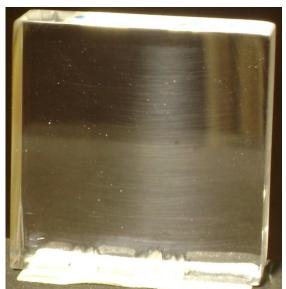
5 μm

 $1 \mu m$ 









#### **Test**

Two main process.

Roughing



Three differents sandpaper.

Polishing



#### Aluminum Oxide

Two weeks ago we have sent the memo bought:

- 180 ml, liquid solution of aluminum oxide n°1, 5 μm.
- 180 ml, liquid solution of aluminum oxide n°1C, 1 μm.
- 180 ml, liquid solution of aluminum oxide n°2A, 0.3 μm.



#### **USM Labs**

We have obtained permission to use a USM lab for:

- Polishing
- Testing surface quality (Optical instrument).

The major constraint is that only can be used it in free hours.

#### **Next Steps**

- Finish the second clamp, separate all LG and send to Athens and Regina.
- Milling two module to JLab.
- Testing surface quality for polishing pieces.
- Testing surface quality that the machine delivery and compare it with roughing of polishing.
- Polishing a LG and send it to JLab to test.

## **END**