

Resin Properties

bioresin[®]

Transparancy	OK
UV stability	OK
Heat stability	OK
Moisture resistance	OK
Adhesion	OK
Handling	OK
Recycling	OK



**Biothan Optical Resins
im Solarzellenbau**

3. MATERIAL RESEARCH

bioresin[®]

- Initial transmission
- UV and heat stability
- Mechanical properties



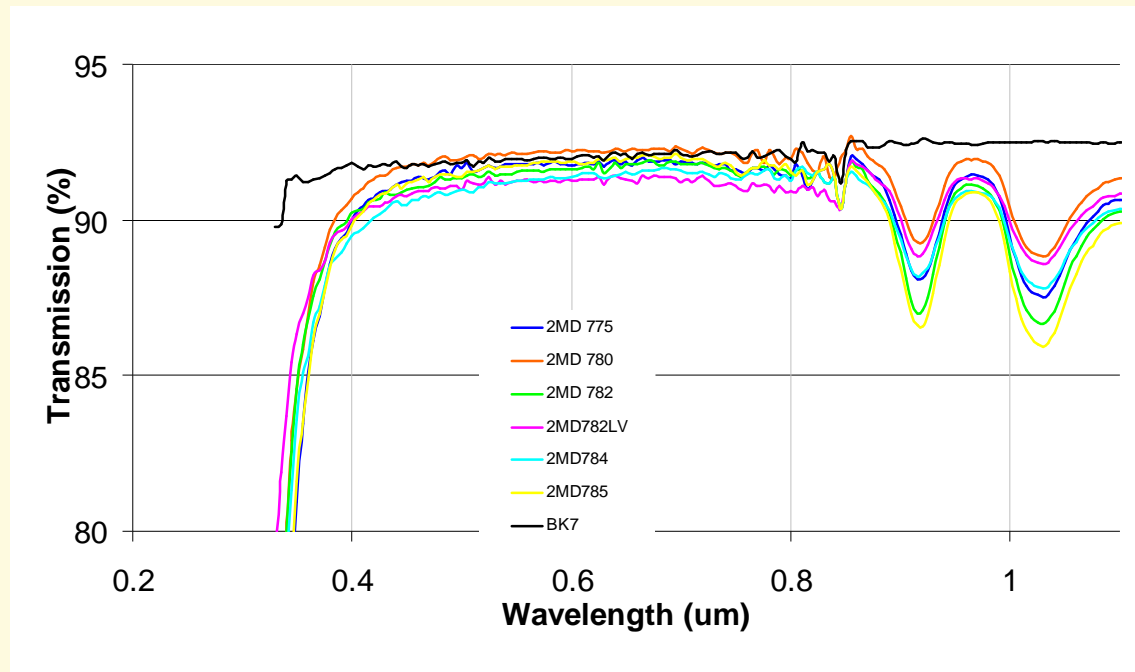
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Initial optical properties



Observations:

- Initial transmission of several hard resins was good
- The 2004 resins are being tested now



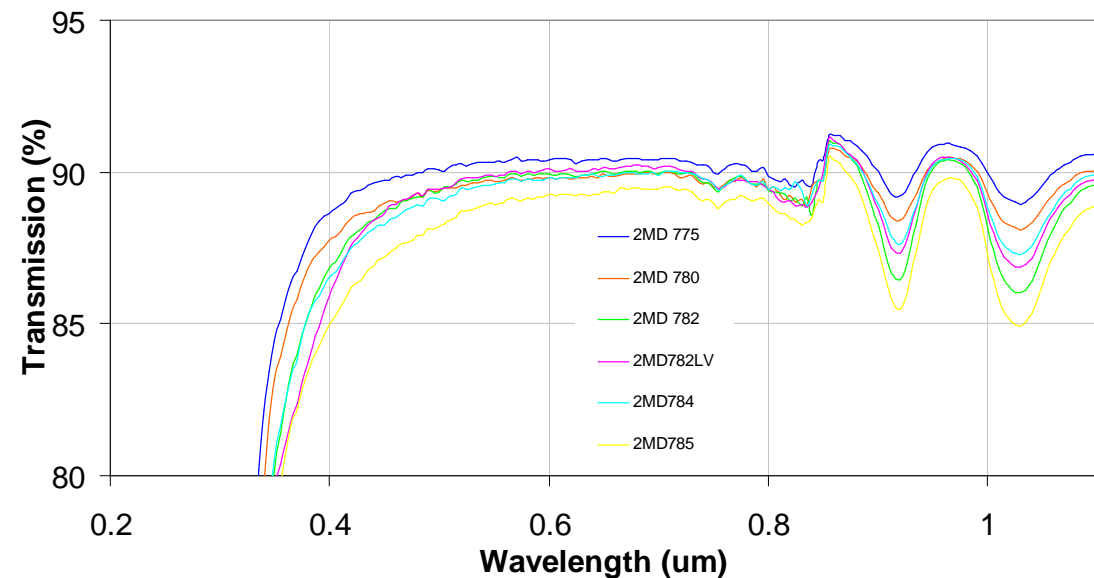
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Optical properties after aging



Observations for transmission:

- Some decrease after 500 hrs UV-A; no further decrease in next 500 hrs.
- Some decrease after 1000 hrs heat-aging @ 85°C
- Some resins were more susceptible to UV-A deterioration, others for heat-aging



*500 hours full spectrum @ 500 W/m²
without UV-B*

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