

Radioactive rays on PMA polyamide products

There are 3 kinds of radiation:

u	Alpha-rays	Little penetration
u	Beta-rays	Medium penetration
u	Gamma-rays	High penetration

(Gamma-rays have the most influence regarding material destruction)

Regarding the use of polyamide products we can provide the following information:

- Polyamide 6 products are resistant for an application at an energy dose up to 10^4 Gy (10^4 Gy = 1 Mrad = 10^4 J/kg).
- Polyamide 12 products has even a better resistance to radioactive rays.
- Polyamide products shall withstand a **unique radiation** of approx. 2,5 Mrad.