

Polyamide Resistance against Ozone

The question of resistance of polyamide to ozone usually arises when alternatives to rubber based products are being considered.

The usual tests carried out to determine the resistance of polyamide are performed with an ozone concentration of 0,1 ppm. After 14 days no changes have been determined in PMA polyamide products.

PMA's tests are according to test procedures as stated in DIN 53509 (1977). These are carried out under the following conditions:

- An ozone concentration of 2 ppm (200 times greater than above)
- Temperature: 40°C
- Relative humidity: 55%

The results of these tests showed that no alteration of material properties took place and that the mechanical protection was not reduced, thus fulfilling the requirements.

SNCF in France have also tested PMA PA6 and PA12 products and have recommended these as excellent alternatives to rubber based materials.