

“POLYNUM” REFLECTIVE INSULATION PRODUCTS ARE ALSO AN EFFECTIVE BARRIER TO CELLULAR RADIATION

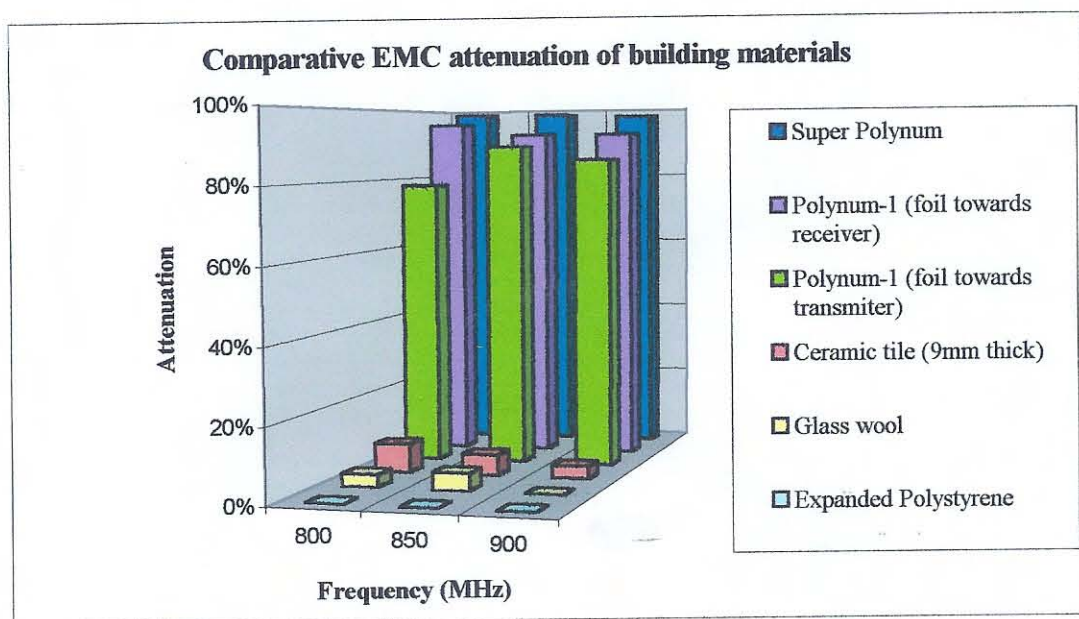
“POLYNUM” products are based on the world’s leading technology for thermal insulation of buildings and houses. These products combine layers of plastic bubble film and pure aluminum foil with high reflectivity surfaces, which prevent the heat exchange through radiation between the building’s inside and the ambient.

To the long listing of advantages of “POLYNUM” as thermal insulation, an important feature has been added: **“POLYNUM” products attenuate* electromagnetic radiation (EMC).**

In a research performed by the Standards Institute of Israel the EMC attenuation capability of different building and insulation materials was measured and compared. The materials tested included: ceramic tiles, glass wool, expanded polystyrene, *Polynum-1* and *SuperPolynum*. The EMC attenuation was measured in the frequency range between 800-900MHz, within which the Cellular Phone Base Antennas transmit.

While the conventional insulation and building materials evaluated showed no significant EMC attenuation, “POLYNUM” products attenuated EMC by at least 80%.

The highest attenuation level was achieved by *SuperPolynum*, which attenuated more than 97% of the EMC in the cellular phone frequency range (see graph below).



The attenuation of *SuperPolynum* was further evaluated in a field test. A Company named “Seagull Semiconductors” in Herzlia (Israel) sits in a building next to a cellular phone antenna. The radiation was measured inside the building according to the International Radiation Protection Agency (IRPA) standard and found to be 1.00V/m. *SuperPolynum* was then installed underneath the building’s roof and the radiation intensity was measured again. The result was outstanding. The radiation intensity was only 0.22V/m, meaning:

***SuperPolynum* attenuated 78% of the cellular phone antenna radiation in field test.**

Due to its many advantages as an advanced insulation material and its radiation attenuation property, *SuperPolynum* is the right choice for the new millenium.

* Attenuation: reduction of signal strength during transmission.