



Declaration of Conformity

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| Manufacturer | PLASTIC FACTORY MARA, Antiopis 31 St. , TK 17343, Athens - Greece |
| name & address | Telephone No. 0030 210 97 13 549 , Fax: 0030 210 97 01 570 |
| EC Representative's Name & Address | Zainea Liviu Nikolae with commercial name ESR ACOUSTICS , VAT Reg.: EL028477254 Telephone & Fax No. 0030 210 2027191 . Web site - http://www.zainea.com |
| Product name, dimensions, packaging and materials | Product name: Roundffusor1 . Item dimensions: 58 x 58 x 11 cm , unit weight : 2 Kg , packaged in hard carton boxes, 3 R1's units per box, each box about 9 Kg. Carton box external dimensions: 60 x 60 x 34 cm The R1 is produced from POLYSTYRENE IMPACT 7240 which is a very high impact polystyrene imported to Greece from TOTAL PETROCHEMICALS BELGIUM. This grade has been designed to be diluted with crystal polystyrene such as polystyrene crystal 1160,1340, 1540 at high levels to obtain stiff and impact resistant sheet for thermoformed packaging. At the MARA FACTORY in Athens, the 7240's granules are then melted and transformed in plates of 5 mm thickness and then using a mould are thermoformed into R1's complex shape. |
| Product short description | The present product / invention relates to an acoustical diffuser device, said apparatus comprising the main body from Fig. 1 and two lateral rigid supports (5), glued to the inside of the said diffuser which lateral supports are received, like a drawer, by two wooden rails (6), section T. The two wooden rails (6) are simply mounted on the wall or ceiling surface with screws or nails. The main diffuser body with his two drivers is mounted just like a drawer toward the two rails T or is embedded into the complex endless-screw containing base from Figs. 6 (1, 9, 10, 11, 12, 13, 14, and 15). The main body is composed from three basically 3D shapes (1, 2, 3, and 4). Each fourth diffusers, displays together a new 3D shapes at their nearest point, Figs. 10, 11 and 12. This diffuser may be used in any kind of room and geometry where the critical listening is needed such live or recorded music and music teaching. His main advantage is that it is working simultaneously in two ways: as a clean diffuser for mid and high frequencies and as a self controlled absorber, below 250 Hz, for low frequencies, as from Fig. 1 and related figures and very low frequencies when the apparatus from Fig. 6 is used. This is possible, because being mounted in two new different ways, his compartmented volumes behind the diffuser surfaces works like a complex Helmholtz resonator. There are described methods for mounting it for one and four grouped apparatus. This is taken from the following patents owned by Zainea Liviu Nikolae: United States Patent 7,261,182 and European Patent EP 1,506,541 containing all related drawings. |
| Hazards identification - Safety standards | Classification of the substance : EC-GHS (CLP) and 67/548/EEC & 1999/45/EC See Safety data sheet link - http://www.zainea.com/polystyrene%20data%2016010-39966-18978-013993.pdf |
| Flamability IEC and ISO test methods | TOTAL PETROCHEMICALS BELGIUM declares : UL (Underwriters Laboratories Inc)It's the company who checks our products and certify the flammability IEC 60695-11-10 as UL94/HB - 1.5 mm , as per 7240 material. Polystyrene High Impact 7240 certified UL94 Data link - http://www.zainea.com/Scan-BCU066282.pdf . The file contains the other 7240 characteristics: Glow wire flamability GWFI - IEC 60695-2-12 , Glow wire ignition GWIT- IEC 60695-2-13, ISO : heat deflection (1.80MPa) , ISO: Tensile & flexural strenght and ISO: Tensile Impact, Izod & Charpy |
| Signature Printed name Title | I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s). Zainea Liviu Nikolae Owner & inventor of Roundffusor1 and its sole exporter |