**Typology** VIBRATION
**Application** UNDER MACHINE

# MAGENTA DAMPING

## PRODUCT DESCRIPTION AND APPLICATION

**MAGENTA DAMPING** is an S.D.O.F. anti-vibration system used for the vibrations produced by the machine group to the building envelope services. The manufactured article is been obtained by direct injection molding of a specific mixture of polyurethane, silicon and latex. **MAGENTA DAMPING** is designed and built "on measure" by the specific soundproofing request. The product should be placed directly to the base of the machine without using the inertial systems of distribution plate.

**Product picture**

## GENERAL INFORMATION AND ADVICE

The acoustic isolation from vibration [LAmax/Leq] for the various types of systems to the building envelope services will be obtained with the use of the product **MAGENTA DAMPING** of **ARCOACUSTICA** company. The article is available in various thicknesses, it has dynamic stiffness (s') 141.0, 133.3, 93.5 e 41.5 MN/m$^3$, Young's modulus 2.75 N/mm$^2$. Contact the manufacturer for indication of product installation.

## SUMMARY OF MAIN FEATURES

| Evaluation criterion | Procedure | Symbol | Magenta$^{10}$ | Magenta$^{20}$ | Magenta$^{30}$ | Magenta$^{70}$ | U.M |
|---|---|---|---|---|---|---|---|
| Nominal thickness | IM/AL 2014 | S | 10.0 | 20.0 | 30.0 | 70.0 | mm |
| Sheet lenght | IM/AL 2014 | L | 200.0 | 200.0 | 200.0 | 200.0 | cm |
| Sheet width | IM/AL 2014 | W | 120.0 | 120.0 | 120.0 | 50.0 | cm |
| Surface mass | IM/AL 2014 | Ms | 12.0 | 24.0 | 36.0 | 84.0 | kg/m$^2$ |
| Density | IM/AL 2014 | Mv | 1200.0 | 1200.0 | 1200.0 | 1200.0 | kg/m$^3$ |
| Thermal conductivity | ISO 8302 | $\lambda_D$ | 0.200 | 0.200 | 0.200 | 0.200 | W/mK |
| Compressibility | EN 12431 | C | CP1 | CP1 | CP1 | CP1 | mm |
| Poisson's ratio | IM/AL 2014 | $\nu$ | 0.47 | 0.47 | 0.47 | 0.47 | / |
| Young modulus in compression | IM/AL 2014 | $E_{secante}$ | 2.75 | 2.75 | 2.75 | 2.75 | N/mm$^2$ |
| Creep | EN 1606 | / | <0.1 | <0.1 | <0.1 | <0.1 | mm |
| Compression stress | ISO 3386/1 | $CC_{10}$ | 230.0 | 230.0 | 230.0 | 230.0 | kPa |
| Static load condition [5%] | IM/AL 2014 | Ls | 8000.0 | 8000.0 | 8000.0 | 8000.0 | kg/m$^2$ |
| Static + dinamic load condition [10%] | IM/AL 2014 | Lsd | 26000.0 | 26000.0 | 26000.0 | 26000.0 | kg/m$^2$ |
| Peak load condition [20%] | IM/AL 2014 | Lp | 58000.0 | 58000.0 | 58000.0 | 58000.0 | kg/m$^2$ |
| Hardness | ASTM D2240 | Shore A | 30.0 | 30.0 | 30.0 | 30.0 | / |

**Warning: All data in the table are subject to a tolerance of ± 10%**

## ACOUSTIC PROPERTY

| Evaluation criterion | Procedure | Symbol | Magenta$^{10}$ | Magenta$^{20}$ | Magenta$^{30}$ | Magenta$^{70}$ | U.M. |
|---|---|---|---|---|---|---|---|
| Apparent dynamic stiffness | ISO 29052/1 | s't | 141.0 | 133.3 | 93.5 | 13.1 | MN/m$^3$ |
| Airflow resistance | ISO 29053 | r | >100.0 | >100.0 | >100.0 | >100.0 | kPa*s/m$^2$ |
| Dynamic stiffness | ISO 29052/1 | s' | 141.0 | 133.3 | 93.5 | 13.1 | MN/m$^3$ |
| Resonant frequency in static load [Ls] | ISO 29052/1 | $f0_{(Ls)}$ | 21.2 | 20.7 | 17.3 | 3.6 | Hz |
| Quality factor | IM/AL 2014 | Q | 3.0 | 4.1 | 5.1 | 6.1 | / |
| Damping factor | IM/AL 2014 | $\zeta$ | 33.3 | 24.3 | 19.5 | 16.3 | % |

**Warning: ArcoAcustica disclaims any civil or criminal liability arising from not compliant products using**

## PACKING

| Evaluation criterion | Magenta$^{10}$ | Magenta$^{20}$ | Magenta$^{30}$ | Magenta$^{70}$ | U.M. |
|---|---|---|---|---|---|
| Pallet size | 120x200 | 120x200 | 120x200 | 120x200 | cm |
| Product weight on pallet | Variable | Variable | Variable | Variable | kg |
| Number of meters per pallet | Variable | Variable | Variable | Variable | m$^2$ |
| Number of sheets per pallet | Variable | Variable | Variable | Variable | Sheet |

**Warning: ArcoAcustica reserves to change the technical specifications of all products without prior notice.**

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