

STP

STP CRYSTAL

THE ACOUSTIC LENS

- **ABSORBS BACK WAVE DISTORTION**
- **GET TOP QUALITY SOUND**
- **DISPERSES AND ABSORBS SPEAKER WAVES AND METALLIC RESONANCE OF A CAR DOORS**
- **VERY EASY TO APPLY (SELF ADHESIVE)**



EMMA
european mobile media association
RUSSIA



2 HEXAGON
PANELS
190x220 mm
self adhesive

FROM RUSSIAN MILITARY TECHNOLOGY
MADE IN RUSSIA





STP CRYSTAL – is an elastic triple-layer multifunctional lense, based on foamed bitumen saturated polyurethane. The lense is covered by a pressed aluminium foil, effectively dispersing back sound wave.

Adhesive layer consists of the most effective vibro insulating material.

Temperature range for handling this material: without mounting layer – from minus 40°C to plus 80°C.

Best choice for car-audio tuning.

Acoustic lens Crystal disperses and absorbs the wave produced by a speaker in the opposite direction as well as metallic resonances of a car door.

Effectiveness of an acoustic lens is defined by the 3 following acoustic effects:

- Vibrodamping of acoustic volume of a car door, i.e. elimination of parasitic resonances.
- Sound absorption in the acoustic volume of a car door provides smoothing of a sound field in terms of frequency.
- Sound pressure averaging in acoustic volume of a car door provides the elimination of acoustic resonances – sound waves interference. The averaging is provided by the special embossment.

Coefficient nomination

Specification

Testing method

Durability of connection between the face covering and foamed polyurethane, N/cm, at least	1,5	GOST 17317
Durability of connection between the anti-adhesive film and the adhesive layer, N/cm, at least	0,013-0,2	GOST 17317
Durability of connection between the material and the bearing surface, N/cm, at least	4,0	I 4.5 TS 2254
Material resistance to the impact of the 80°C temperature for 12 hours (no peeling the face covering off the foamed polyethylene and the material off the bearing surface)		I 4.7 TS 2254
Material resistance to the impact of water for 6 hours (no peeling the face covering off the foamed polyethylene and the material off the bearing surface)		I 4.8 TS 2254
Burning rate, mm/min, at least	100	GOST 25076 (ISO 3795)
Thickness, mm	15	I 4.3 TS 5772
Frequency, Hz Sound absorbtion factor, arbitrary unit, not less than		
400	0,13	GOST 16297
630	0,46	GOST 16297
800	0,45	GOST 16297
1000	0,32	GOST 16297
1250	0,24	GOST 16297
1600	0,29	GOST 16297
2000	0,59	GOST 16297
2500	0,83	GOST 16297
4000	0,40	GOST 16297
5000	0,31	GOST 16297
6300	0,22	GOST 16297
Mechanical loss indicator at 200 Hz frequency	0,20	DIN EN ISO 6721-3

MOUNTING AND USAGE:

- Remove the decorative plastic panel of the car door.
- Mounting is performed behind a speaker of a car sound system on the inner side of the external wall of a door.
- The product should be mounted on flat, clean and dry surfaces. The temperature in a working place should be from +18°C till +30°C above zero.
- If the transportation (storage) has been performed under the temperature of 15°C below zero, it is necessary to keep the product in the supplier's package at the temperature from +18°C till +30°C above zero for at least 24 hours;
- Remove the protective anti adhesion paper from the product before the mounting. The product edge is applied to the mounting surface and is stucked to it evenly without additional force. Try to avoid air bubbles. The attempt to unstick the product after the mounting has been performed could cause damage to the product;
- The product should be used without using any organic solvent or moisture influence.

Test made by independent laboratory