

asota® INDOOR / OUTDOOR

ASOTA fibre types (PP / PE / PO / PA) are melt spun fibres and meet the maximum standards of the ecological requirements. The addition of special stabilization systems ensure that the fibres meet accurately various application requirements. The standard types programme covers several UV versions.

Depending on the intended application there are:

Stabilization 10
low UV impact

Stabilization 11
high UV impact

Stabilization 15
extreme UV impact

The use of the different stabilizations depends on the particular testing conditions.

The criteria of classification of different types of stabilizations are as follows:

	10	11	15
HLT	1.000	3.000	4.000
LF	min. 6	min. 7	7 – 8

HLT = Half life time of tenacity
(single fibre based on 17 dtex)

LF = Light fastness (DIN blue scale)
according Xenotest 450, 38 – 40 °C
30 % humidity, day/night cycle (acc. DIN)

Stabilization 10

for INDOOR applications exposed to no or only low UV radiation (domestic and contract floorings).

Fibre types:

PP F, L, D, R, G, M, S

PO H, N, K

PA P

Stabilization 11

for OUTDOOR applications exposed to intense UV radiation (Outdoor and sport floorings).

Fibre types: **F, L, D, R, G, M**

Fibres equipped with this stabilization are especially resistant to intense sun radiation. The factor of improvement in comparison to regular stabilization 10 is 3 to 4.

... further information on request!

As a consequence of a long experience in production and processing of polypropylene fibres and based on numerous practical as well as laboratory tests, **ASOTA Ges.m.b.H.** guarantees the following for this type:

Guarantee **asota**[®] 11

1. After an exposure of 3.000 hours in a Xenotest 450, at a luminance temperature of 38 ± 2 °C and a day-night cycle, the tensile strength of **asota**[®] 11 fibres still results in a minimum of 50 % of the original value.
2. After a radiation of 500 kLys respectively 2.100 kLys/cm², which corresponds with an insulation for a period of 5 years at about 1.000 m above sea level in a moderate climate within Central Europe, **asota**[®] 11 shows at the worst a change in colour according to grade 3 on the grey scale (DIN 54001).

According to the conditions mentioned above, a carpet with a pile or top layer consisting of **asota**[®] 11, will have at least 80 % of its original weight after a 5 years period.

This guarantee is valid on the condition that **asota**[®] 11 is processed according to recommended procedures and conditions of production in general use, that it is chemically bonded and needed in an appropriate way and attended in an expert manner.

Fibre types: **L, D, R, M, G** (≥ 17 dtex)

Stabilization 15 Super UV

for OUTDOOR applications exposed to extreme UV radiation (sports floor coverings, e.g. tennis courts).

asota[®] 15 is an improved version of **asota**[®] 11 in regard of UV-stability and light fastness with a **half life time of tenacity of at least 4.000 hours**. (see **asota**[®] 11 = 3.000 hrs.). This modified stabilization has been conceived for outdoor applications with high mechanical stress (e.g. sports floor coverings like tennis courts).

As a consequence, Asota guarantees for **asota**[®] 15 fibre types during a period of 5 years analogous to the guarantee with **asota**[®] 11.

Fibre types: **M, L, D, R, M, G** (≥ 17 dtex)

... further information on request!