

Kedeck MECHANICAL PROPERTIES

Kedeck profiles are produced from plastic packages sourced from the nutrition industry. Raw material is thermo-treated to eliminate the organic material and extruded into various profiles.

Kedeck is mainly composed of HDPE, LDPE, PP and PS.

Kedeck Craft:

Flexural properties	EN 408	Flexural modulus (N/mm ²)
		-50°C 1843
		22°C 795
		60°C 452
Density		0,75 g/cm ³
Linear expansion		0,069 mm/m/°C **
Flammability class	ISO 13501-1	E
UV-impairment	ASTM G154	ΔE=1,1 (no damage) *
Water absorption	ISO 62	0,17%
Sound isolation	EN 1793-2	B3
Resistance to chemicals		no damage: white spirit, lighter fluid, bleach, hot baking oil
Toxity report		non-toxic

* UV-impairment

UV-tests were carried out under standard conditions (ASTM G154) over a period of time correlating to approx. 10 years natural sunlight. ΔE indicates the change in colour co-ordinates (L*, a*, b*)

Warranty 26 years

Keddeck mechanical properties:

Resistance to UV irradiation	EN 438-2:2016 (level 4-5)
Scratch resistance	EN 438-2:2016 (level 5)
Abrasion resistance	EN 14354 (>/= 3000 turns)
Resistance to artificial weathering	EN 438-2:2016 (level 4-5)
Anti-slip property	DIN 51130 (level 10)
Bending strength and modulus of elasticity	EN 15534- 1:2014 —1200kg/m ²

Film composition: substrate printed decor film, impregnation transparent EB-curable resins, coating transparent UV stable EB-curable resins. All used resins are solvent- and formaldehyde free, release film PP film.

Keddeck T&G profile, planks, beams additional mechanical properties of the exterior

Class MX- classic outdoor film for Northern and Middle Europe. UV-stability warranty 10 years.

Class PX- It is a unique exterior film which lasts longer outdoors. Especially in Southern Europe or similar climates. The film features improved performance in all aspects of the product construction which results in better durability and longevity.

UV-stability warranty 15 years most countries in Northern and Central Europe, 10 years g. France, Spain, Italy, Russia and Turkey

Class FX - the premium product which can be used all over the world without restrictions and benefits from additional special features such as anti-graffiti properties. It is especially designed and formulated for harsh tropical and subtropical climates i.e. Australia, India, North- and Middle America and Southeast Asia.

UV-stability warranty 15 years for Europe.

** Linear expansion

Due to temperature fluctuations Keddeck material will experience minimal expansion and contraction 0,069 mm/m//°C. Simply, when temperature rises 1°C Keddeck boards expand 0,069 mm per 1 m.

Workability

Keddeck profiles are very easy to work with —they can be sawn, cut, nail and staple. Drilling with low speed and lead-holes are advised. Keddeck material does not absorb moisture, therefore regular water is sufficient for cleaning for most cases. If needed conventional cleaning chemicals can be used