

PlastRex® Technical datasheet

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

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



Mechanical properties

1. Flexural properties	EN 408	Flexural modulus (N/mm ²)
		<ul style="list-style-type: none">• -50°C 1843• 22°C 795• 60°C 452
2. Density		0,75 g/cm ³
3. Linear expansion		0,069 mm/m/°C
4. Flammability class	ISO 13501-1	E
5. UV-impairment	ASTM G154	ΔE= 1,1 (no damage)*
6. Water absorption	ISO 62	0,17 %
7. Sound isolation	EN 1793-2	B2
8. Resistance to chemicals		<ul style="list-style-type: none">• White spirit No damage• Lighter fluid No damage• Bleach No damage• Hot baking oil No damage
9. Toxicity report		Non toxic

UV-Impairment

PlastRex UV-Tests were carried out over a period of time correlating to approx. 10 years of natural sunlight in Central-Europe. Below the pictures and table, where color-coordinates (L*, a*, b*), illustrate the effects.

Green	0h	3000h
L*	35,9	35,03
a*	7,73	7,1
b*	1,4	1,57
ΔE		1,1

Brown	0h	3000h
L*	30,4	32,53
a*	14,27	15,07
b*	4,23	5,03
ΔE		2,4

Linear expansion

Due to temperature fluctuations PlastRex material will experience minimal expansion and contraction accordingly.

Simply – when temperature rises 1°C PlastRex Decking boards expands 0,069mm per 1m.

Following table is useful when installing a PlastRex Deck:

Installing temperature	0°C	10°C	20°C	30°C	40°C	50°C
Space to leave per 1m	5mm	4mm	3mm	2mm	1,5mm	1mm

Workability

PlastRex profiles are very easy to work with – they can be sawn, cut, nail and staple. PlastRex holds screw and nail connections even better than wood, especially in wet environment.

Drilling with low speed and lead-holes are advised.

PlastRex material does not absorb moisture or dirt, therefore regular water is sufficient for cleaning for most cases. If needed, conventional cleaning chemicals can be used.

More information about PlastRex profiles and products:

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