Nylon carpet

Carpet is a common flooring material, widely used for residential and commercial flooring applications. It has good insulative properties and medium - high durability. It is typically graded using surface pile mass (g/m^2) , with a higher g/m^2 generally indicating a higher quality and more durable product.

Tufted carpet is available in three standard styles: 'cut pile', 'loop pile' and 'cut & loop pile'. Within these styles, there are significant variations in durability, aesthetic qualities and cost. During production, carpet fibre is sewn directly onto a primary backing fabric and then bonded (commonly using latex) onto a secondary backing layer (hessian, or similar). Common carpet fibres include: Nylon, Polypropylene, Wool, Wool-blends, Polyester and Acrylic.

Nylon carpet is generally cheaper than wool alternatives. It is stain resistant and holds its colour well. High durability and toughness make it ideal for use in high-traffic areas.

Category *Miscellaneous*

Nylon

Functional m²

Type

Specific heat 2500 J/(kg·K)

Density 350 kg/m^3

Common uses

Residential and commercial flooring

Process name

Carpet, tufted, 100% nylon, 600-700g/m2 (custom)

Input-output sector Polymer Product Manufacturing

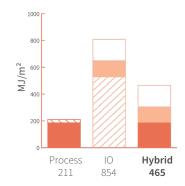
Further information doi.org/10.26188/5da5521a352db

Material variations	Unit	Energy (MJ/unit)	Water (L/unit)	GHG emissions (kgCO ₂ e/unit)
Tufted carpet, nylon - average	m²	465	1 149	31.2
Tufted carpet, nylon - quality	m²	484	1 161	33.3
Tufted carpet, nylon - prestige	m²	785	1 866	55.3
Woven carpet, nylon - average	m²	364	908	23.9
Woven carpet, nylon - quality	m^2	376	911	24.8



TOP THREE INPUTS

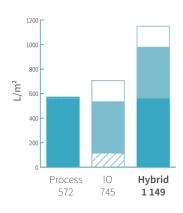
- 16.9% Nylon 6, at plant/RER U/ AusSD U
- Thermoforming, with calendering/RER U/ AusSD U
- 8.2% Latex, at plant/RER S/ AusSD U





TOP THREE INPUTS

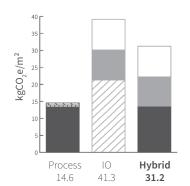
- Thermoforming, with calendering/RER U/ AusSD U
- 17.9% Other Agriculture
- Nylon 6, at plant/RER U/ AusSD U





TOP THREE INPUTS

- Nylon 6, at plant/RER U/ AusSD U
- 9.9% Thermoforming, with calendering/RER U/ AusSD U
- 4.0% Latex, at plant/RER S/ AusSD U



GREENHOUSE GAS EMISSIONS 31.2 kgCO₂e/m²