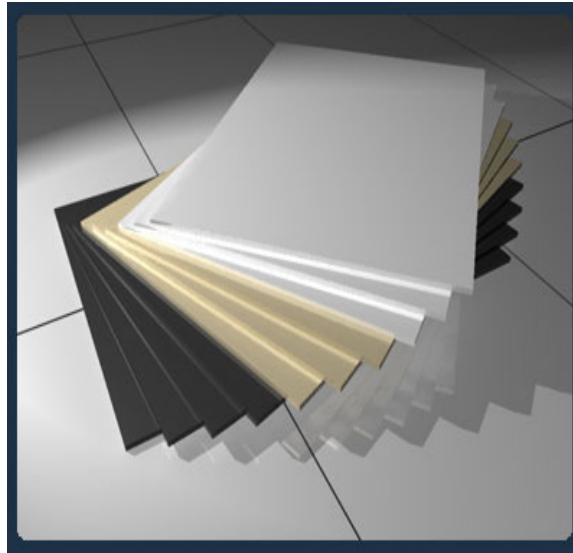


Material Information Sheet – Nylon



Description

Nylon is a versatile plastic material used to make light, rigid products where moderate to high levels of performance are desirable. The material is comparatively easy to shape, cut and bond; post-painting or similar treatments can be carried out where necessary with appropriate preparation.

Its main characteristics are as follows:-

- High mechanical strength, stiffness, hardness and toughness
- Good fatigue resistance
- High mechanical damping ability
- Excellent wear resistance
- Good machine-ability

Applications in Sign-making

Nylon can be used to produce signage where a mid- to long-term lifespan is desirable.

With appropriate preparation it can be printed using a variety of techniques (such as wide-format digital printing, screen printing etc.). Nylon can also be engraved and responds well to both laser and rotary techniques.

Special Grades

Nylon can be supplied in a variety of formulated grades for specific applications:-

- Higher-performance
- High temperature resistance

Physical Properties (Typical)

The data are typical values and are not intended to represent specifications. Their aim is to guide the user towards a material choice. All statements, technical information and recommendation in this product data sheet are presented in good faith, based upon test believed to be reliable and practical experience. However, Bay Plastics Ltd cannot guarantee the accuracy or completeness of this information, and it is the buyer's responsibility to determine the suitability of products in any given application. Therefore no liability whatsoever shall attach to Clarity Sign and Design limited for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information or products by the buyer.

Property	Unit	Test Method	Value
Density	g/cm ³		1.14
Tensile strength at yield	MPa		>46
Ball indentation hardness	N/mm		150
Max. service temperature (Short term)	°c		160
(Long term)	°c		~80
Min Service Temperature	°c		-40

Availability

Nylon is commonly supplied in sheet form in thicknesses from 1mm through 20mm.

Further information

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