



# Product Data Sheet

## Nylon Backing Panel

### General Information

Historically, the standard specification for Aquasign® markers would be to pre-bond to a rigid backing panel for ease of installation. This panel can be manufactured using extruded Nylon a widely used polymer with good general purpose properties.

The rigid backing panel can be supplied with pre-drilled holes to customer specification, or alternatively slots for cable-tie / Q-band strapping fixings.

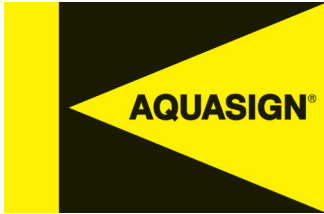
### Technical Data

#### General Properties:

Property	Test - ISO (IEC)	Unit	Result
Colour	-	-	Natural (Off-White)
Density	1183	g / cm <sup>3</sup>	1.14
Melting Temperature	-	°C	220
Thermal Conductivity	-	W / K.m	0.28
Coefficient of linear thermal expansion: Av. value between 23-60°C	-	m / (m·K)	90 x 10 <sup>-6</sup>
Av. value between 23-100°C	-	m / (m·K)	105 x 10 <sup>-6</sup>
Temperature of deflection under load: Method A: 1.8 MPa	75	°C	70
Minimum Service Temperature	-	°C	-40

#### Mechanical Properties:

Property	Test - ISO (IEC)	Unit	Result
Tension Test			
- tensile stress at yield	527	MPa	76
- tensile strain at break	527	MPa	> 50
- tensile modulus of elasticity	527	MPa	3,250
Compression Test			
- stress at 1/2/5% nominal strain	604	MPa	24/46/80
Creep Test in Tension			
- stress to produce 1% strain in 1,000 h ( 1/1,000)	899	MPa	18
Charpy Impact Strength - Un-notched	179 / 1eU	KJ / m <sup>2</sup>	No Break
Charpy Impact Strength - Notched	179 / 1eA	KJ / m <sup>2</sup>	5.5
Izod Impact Strength - Notched	180 / 2A	KJ / m <sup>2</sup>	5.5



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### Environmental Characteristics

Nylon has been selected for producing rigid backing plates due to its general good resistance to environmental conditions and in particular to sewerage. Further information can be provided by AQUASIGN on request.

### Availability

Our standard rigid backing materials are held in stock.