



PPH Pressed and Planed Sheet

Natural / Beige (RAL 7032)

PPH is light weight (SG 0.91) has improved chemical resistance, stiffness, improved higher working temperature compared to PPC (0°C to +100°C). PPH retains its low water absorption, is easily weldable and food compliant.

product information

Name:	Polypropylene Homopolymer
Other names:	PP-DWU Alphaplus [®] , PP-DWST
Abbreviation:	PPH

key characteristics

- » Excellent weldability
- » Excellent chemical resistance
- » High corrosion resistance
- » High rigidity in upper temperature range
- » Higher working temperature than PPC
- » Food compliant

applications

- » Chemical tanks
- » Water applications
- » Medical
- » Equipment construction

this document contains

- » Technical Datasheet (Page 1)
- » Chemical Datasheet (Page 2)
- » Safety Datasheet (Pages 3-4)

For any further information regarding food, fire and water certificates then please contact the sales team on 0116 232 1010

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technical properties

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm ³	0.92
2. Water absorption	ISO 62	%	<0.1
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	100
Lower temp limit	-	°C	0

Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	33
2. Elongation at yield	ISO 527	%	8
3. Tensile strength at break	ISO 527	MPa	28
4. Elongation at break	ISO 527	%	>50
5. Impact strength	ISO 179	kJ/m ²	no break
6. Notch impact strength	ISO 179	kJ/m ²	6
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	103
8. Shore-D	ISO 868	-	76
9. Flexural strength	ISO 178	MPa	-
10. Modulus of elasticity	ISO 527	MPa	1500

Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°C	88
2. Heat deflection temperature HDT/B	ISO 75	°C	85
HDT/A	-	°C	55
3. Coefficient of linear thermal expansion	DIN 53752	k ⁻¹ *10 ⁻⁴	1.8
4. Thermal conductivity at 20 °C	DIN 52612	W/(m*K)	0.22

Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ω x m	-
2. Surface resistivity	DIN 53482	Ω	>10 ¹³
3. Dielectric constant at 1MHz	DIN 53483	-	2.4
4. Dielectric loss factor at 1 MHz	DIN 53483	-	3.3 + 10 ⁻⁴
5. Dielectric strength	DIN 53483	kV/mm	80
6. Tracking resistance	IEC 60112	-	-

Additional Data	Test Method	Unit	Result
1. Bondability	-	-	+
2. Food compliance	FDA	-	+
3. Flammability	UL 94	-	-

Key:

Yes	Limited	No or no data
+	o	-

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chemical properties

Agent	Conc %	Working Temp	
		20°C	60°C
Acetic Acid	100	o	o
Acetone	100	+	+
Ammonia	Conc.	+	+
Ammonium chloride		+	+
Amyl Alcohol		+	o
Benzene		o	-
Bleaching Solution	12,5 Cl	+	-
Boric Acid	100	+	+
Brake Fluid		+	+
Butyl Acetate		o	-
Calcium Chloride		+	+
Carbon disulphide	100	-	-
Carbon Tetrachloride		-	-
Chlorine, gas	100	-	-
Chlorobenzene	100	o	-
Chloroform		o	-
Citric Acid	10	+	+
Cresol		+	o
Cyclohexanone	100	o	o
Cyclohexene	100	-	-
Diesel Fuel		o	-
Ethyl acetate	100	+	-
Ethyl alcohol	96	+	+
Ethylene Chloride	100	o	-
Formic Acid	10	+	+
Frost protection agent	Petrol	+	+
Fuel, aromatic free		o	-
Glycerine	100	+	+
Glycol	100	+	+
Heating oil		+	-
Heptane	100	o	o
Hydrochloric acid	10	+	+
Hydrochloric acid	Conc.	+	o

Agent	Conc %	Working Temp	
		20°C	60°C
Hydrofluoric acid	40	o	-
Hydrogen peroxide	10	+	+
Hydrogen Sulphide		+	+
Isopropyl Alcohol	100	+	+
Mercurochrome		+	
Methyl alcohol	100	+	+
Methyl ethyl ketone	100	+	o
Methylene chloride	100	o	-
Nitric acid	10	+	-
Nitric acid	50	o	-
Nitrobenzine		+	o
Oxalic Acid		+	+
Ozone, gas	ca. 0,5 ppm	+	-
Paraffin Oil	100	+	o
Perchlorethylene		o	-
Petroleum	100	o	o
Petroleum, aromatic free	100	o	o
Phenol, aqu	ca.9	+	+
Phosphoric Acid	50	+	+
Potassium hydroxide liquor	50	+	+
Propyl alcohol		+	+
Pyridine		o	o
Silicone oil		+	+
Sodium carbonate, aqu		+	+
Sodium chloride, aqu		+	+
Sodium Hydroxide liquor	60	+	+
Sodium hydrogen sulphite		+	+
Sodium nitrate, aqu		+	+
Sodium thiosulfate		+	+
Sulphuric Acid	96	o	-
Tetrahydrofuran	100	o	-
Toluene	100	o	-
Trichlorethylene	100	o	-
Xylene		o	-

Key:

Resistant	Partly Resistant	Non-Resistant
+	o	-

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safety properties

Substance/preparation and Company detail

Polypropylene Homopolymer

Oadby Plastics
68 Scudamore Road,
Braunstone Frith Industrial Estate,
Leicester,
LE3 1UA
0116 232 1010

Composition / Indications to components

Chemical characteristics: polymer of propylene
CAS-number: not necessary

Possible dangers

Unknown

First-aid measures

General comment: medical aid is not necessary
First-aid measures: none
Routes of exposure: none
Symptoms / effects: none

Fire-fighting measures

Suitable fire-fighting appliance: water fog, foam, fire fighting powder, carbon dioxide
Hazard warning notice: not applicable

Measures in case of unintended release

Person-related measures: none
Environmental protection measures: not applicable
Cleaning equipment: not applicable
Unsuitable cleaning products: not applicable

Handling and storage

Handling: no special regulations must be observed
Storage: unlimited good storage property

Limitation of exposition

Special design of techn. processing facilities: not required
Tolerance levels: none
Exposure measurement procedures: none
Respiratory protection: not required
Eye protection: not required
Body protection: not required

Physical and chemical characteristics

Phenotype

Phenotype / form: semi-finished product, solid state
Colour: natural
Smell: not applicable

Change of state

Crystalline melting range: 160-165 °C
Flash point: not applicable

Other remarks

Density: 0.905 g/cm³

safety properties

Stability and reactivity

Thermal decomposition: above appr. 300 °C

Dangerous decomposition products:

Besides carbon black also carbon dioxide and water as well as low molecular parts of PP will develop during the burning process. In case of incomplete burning also carbon monoxide may arise.

Use of stabilisers: none

Exothermic reactions: none

Notices regarding state of aggregation: none

Conditions to be avoided: none

Substances/media to be avoided: none

Toxic information

During several years of usage no effects being harmful for the health were observed.

Ecological information

No biodegradation, no solubility in water, no effects being harmful to the environment must be expected.

Mobility: not applicable

Accumulation: not applicable

Eco-toxicity: not applicable

Waste-disposal information

Can be recycled or can be disposed of together with household rubbish (acc. To local regulations).

Waste key for the unused product: EAK-Code 120 105

Waste name: waste of Polyolefine.

Transport information

No dangerous product in respect to / according to transport regulations

Notice/symbol transport containers: none

Special marking for containers: none

Regulations

Marking according to GefStoffV/EG: no obligation for marking

Water danger class: class 0 (self classification)

Domestic requirements to be observed: none

Further information

The information is based on our current knowledge. They are meant to describe our products in respect to safety requirements. They do not represent any guarantee of the described product in the sense of the legal guarantee regulations.