



## Product information

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### Product full identity:

Polypropylene Copolymer

PPC is light weight (SG 0.91), low water absorption, high impact strength combined with very good chemical properties. PPC has a wide operating temperature range (-20°C to +80°C), easily weldable and food compliant.

### Properties

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- » Lower working temperature than PPH
- » Good chemical resistance
- » lower susceptibility to stress cracking
- » Improved impact strength at lower temperatures
- » High welding ability
- » Food compliant

### Applications

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- » Ventilation
- » Food Industry
- » Chemical tanks
- » Pharmaceutical

### This document contains

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- » Technical Datasheet (Page 2)
- » Chemical Datasheet (Page 3)
- » Safety Datasheet (Pages 4-5)

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

## Technical Properties

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm <sup>3</sup>	0.91
2. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	80
Lower temp limit	-	°C	-20
Mechanical Properties	Test	Unit	Result
1. Elongation at yield	ISO 527	%	7
2. Yield Strength	ISO 527	MPa	26
3. Impact strength	ISO 179	kJ/m <sup>2</sup>	no break
4. Notch impact strength	ISO 179	kJ/m <sup>2</sup>	45
5. Ball indentation	ISO 2039-1	MPa	50
6. Shore-D	ISO 868	-	67
7. Modulus of elasticity	ISO 527	MPa	1200
Thermal Properties	Test Method	Unit	Result
1. Coefficient of linear thermal expansion	DIN 53752	k <sup>-1</sup>	1.6 x 10 <sup>-4</sup>
2. Thermal conductivity	DIN 52612	W/(m*K)	0.22
Electrical Properties	Test Method	Unit	Result
1. Surface resistivity	IEC 6093	Ω	>10 <sup>14</sup>
2. Dielectric strength	IEC 60243-1	kV/mm	52
Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	FDA + EU	-	+
3. Flammability	UL 94	-	-

All The above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

### Key:

Yes	Limited	No data
+	o	-

## Chemical Properties

Agent	Conc %	Working Temp		Agent	Conc %	Working	Temp
		20°C	60°C				
Acetic Acid	100	o	o	Hydrofluoric acid	40	o	-
Acetone	100	+	+	Hydrogen peroxide	10	+	+
Ammonia	Conc.	+	+	Hydrogen Sulphide		+	+
Ammonium chloride		+	+	Isopropyl Alcohol	100	+	+
Amyl Alcohol		+	o	Mercurochrome		+	
Benzene		o	-	Methyl alcohol	100	+	+
Bleaching Solution	12,5 Cl	+	-	Methyl ethyl ketone	100	+	o
Boric Acid	100	+	+	Methylene chloride	100	o	-
Brake Fluid		+	+	Nitric acid	10	+	-
Butyl Acetate		o	-	Nitric acid	50	o	-
Calcium Chloride		+	+	Nitrobenzine		+	o
Carbon disulphide	100	-	-	Oxalic Acid		+	+
Carbon Tetrachloride		-	-	Ozone, gas	ca. 0,5 ppm	+	-
Chlorine, gas	100	-	-	Paraffin Oil	100	+	o
Chlorobenzene	100	o	-	Perchlorethylene		o	-
Chloroform		o	-	Petroleum	100	o	o
Citric Acid	10	+	+	Petroleum, aromatic free	100	o	o
Cresol		+	o	Phenol, aqu	ca.9	+	+
Cyclohexanone	100	o	o	Phosphoric Acid	50	+	+
Cyclohexene	100	-	-	Potassium hydroxide liquor	50	+	+
Diesel Fuel		o	-	Propyl alcohol		+	+
Ethyl acetate	100	+	-	Pyridine		o	o
Ethyl alcohol	96	+	+	Silicone oil		+	+
Ethylene Chloride	100	o	-	Sodium carbonate, aqu		+	+
Formic Acid	10	+	+	Sodium chloride, aqu		+	+
Frost protection agent	Petrol	+	+	Sodium Hydroxide liquor	60	+	+
Fuel, aromatic free		o	-	Sodium hydrogen sulphite		+	+
Glycerine	100	+	+	Sodium nitrate, aqu		+	+
Glycol	100	+	+	Sodium thiosulfate		+	+
Heating oil		+	-	Sulphuric Acid	96	o	-
Heptane	100	o	o	Tetrahydrofuran	100	o	-
Hydrochloric acid	10	+	+	Toluene	100	o	-
Hydrochloric acid	conc.	+	o	Trichlorethylene	100	o	-
				Xylene		o	-

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### Key:

Resistant	Partly Resistant	Non resistant
+	o	-

## Safety Properties

### Substance / preparation and company detail

Polypropylene copolymer  
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

### First-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:

Smell: not applicable

#### Change of state

Crystalline melting range: 160-164 °C  
Flash point: not applicable

#### Other remarks

Density: 0.91 g/cm<sup>3</sup>

## 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.