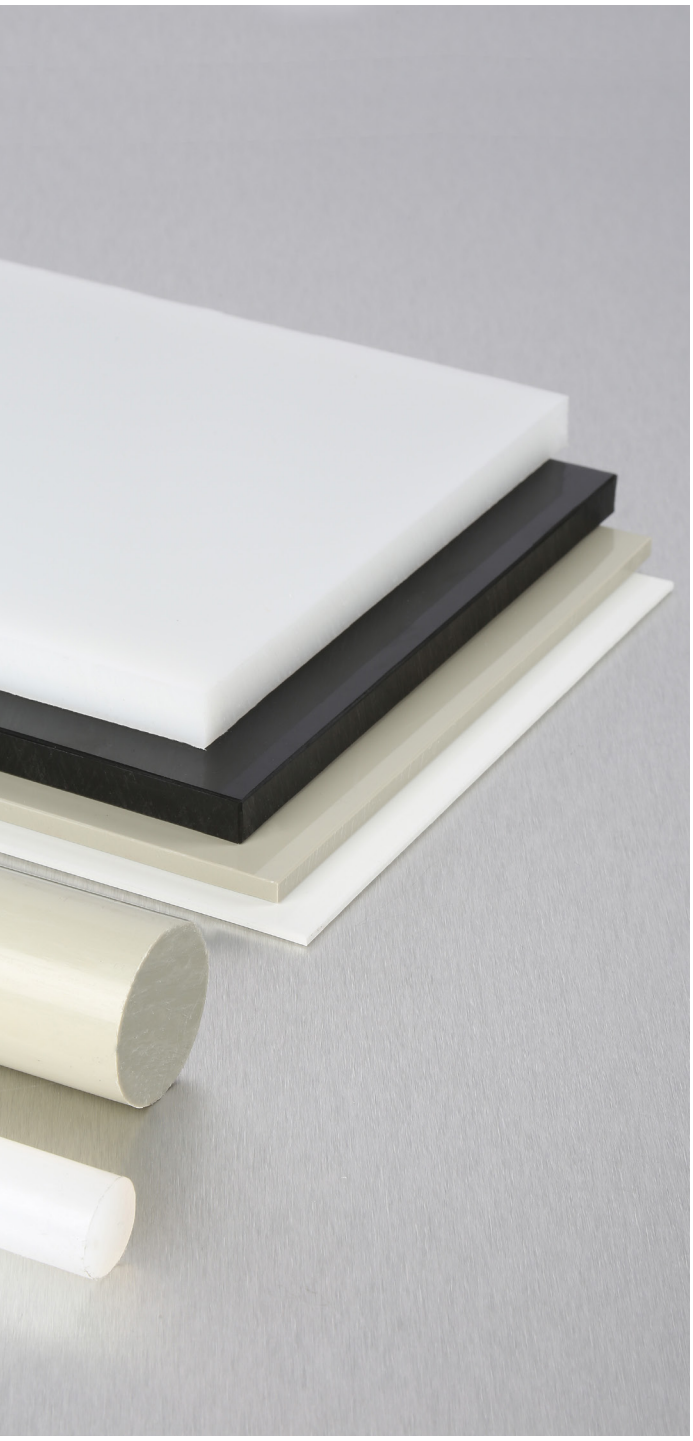

Product information

Product full identity:

Polypropylene Copolymer

PPC is light weight (SG 0.91), low water absorption, highimpact 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

» 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

» Ventilation
» Food Industry
» Chemical tanks
» Pharmaceutical

This document contains

For any furthur 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/cm³	0.91
2. Water absorption	ISO 62	%	0.01
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	80
Lower temp limit	-	°C	-20
Mechanical Properties	**Test**	**Unit**	**Result**
1. Tensile strength at yield	ISO 527	MPa	26
2. Elongation at yield	ISO 527	%	7
3. Tensile strength at break	ISO 527	MPa	25MPa
4. Elongation at break	ISO 527	%	300
5. Impact strength	ISO 179	kJ/m²	no break
6. Notch impact strength	ISO 179	kJ/m²	45
7. Ball indentation / Rockwell hardness	ISO 868	MPa	64
8. Shore-D	ISO 868	-	64
9. Flexural strength	ISO 178	MPa	-
10. Modulus of elasticity	ISO 527	MPa	1200
Thermal Properties	**Test Method**	**Unit**	**Result**
1. Vicat-softening point VST/B/50	ISO 306	°C	92 °C
2. Heat deflection temperature HDT/B	ISO 75	°C	-
HDT/A	-	°C	-
3. Coefficient of linear thermal expansion	DIN 53752	$k^{-1}*10^{-4}$	1.6
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	-	Ω	$>10^{14}$
3. Dielectric constant at 1MHz	-	-	-
4. Dielectric loss factor at 1 MHz	DIN 53483	-	-
5. Dielectric strength	VDE 0303	kV/mm	50
6. Tracking resistance	IEC 60112	-	600
Additional Data	**Test Method**	**Unit**	**Result**
1. Bondability	-	-	+
2. Food compliance	FDA	-	+
3. Flammability	UL 94	-	HB

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 20°C	Temp 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
Hydrofloric 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	-
Tetrahydrofurance	100	o	-
Toluene	100	o	-
Trichlorethylene	100	o	-
Xylene		o	-

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

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

Handing 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: grey
Smell: not applicable
Change of state
Crystalline melting range: 160-164 °C
Flash point: not applicable
Other remarks
Density: 0.91 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.