



Product information

Product full identity:

Polypropylene/Polyethylene Regenerated

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

- » Good chemical resistance
- » Good impact strength
- » Low moisture absorption
- » UV protected for years
- » Low cost

Applications

- » Non technical machined parts
- » Divider / liner panels
- » Signage panels

This document contains

- » 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 ³	0.91-1
2. Water absorption	ISO 62	%	-
3. Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	-
Lower temp limit	-	°C	-
Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	20-25
2. Elongation at yield	ISO 527	%	10
3. Tensile strength at break	ISO 527	MPa	10-25
4. Elongation at break	ISO 527	%	350-700
5. Impact strength	ISO 179	kJ/m ²	-
6. Notch impact strength	ISO 179	kJ/m ²	-
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	-
8. Shore-D	DIN 53505	-	-
9. Flexural strength	ISO 527	MPa	750-1200
10. Modulus of elasticity	ISO 527	MPa	-
Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°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	-
4. Thermal conductivity at 20 °C	DIN 52612	W/(m*K)	-
Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ω x m	-
2. Surface resistivity	-	Ω	-
3. Dielectric constant at 1MHz	-	-	-
4. Dielectric loss factor at 1 MHz	DIN 53483	-	-
5. Dielectric strength	VDE 0303	kV/mm	-
6. Tracking resistance	IEC 60112	-	-
Additional Data	Test Method	Unit	Result
1. Bondability	-	-	-
2. Food compliance	FDA	-	-
3. Flammability	UL 94	-	B2

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
+	0	-

Chemical Properties

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

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Key:

Resistant	Partly Resistant	Non resistant
+	o	-

Safety Properties

Substance / preparation and company detail

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

Composition / indications to components

Chemical characteristics: copolymer 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: 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.