Polycarbonate | Sheet Extruded





Product information

Product full identity: Polycarbonate

PC has excellent optical properties and a high gloss surface. Easy to fabricate PC shows exceptional performance with a wide operating temperature range (-40°C to +135°C). Other important benefits are high mechanical, thermal and electrical properties also virtually unbreakable in normal use. Also available in UV grade.

Properties

- » 25% more impact resistant than PETG
- » Virtually unbreakable
- » Good fire properties & self extinguishing
- » Suitable for thermoforming

Applications

- » Machine guards
- » Riot shields
- » Visors
- » Signs
- » Windows

This document contains

- » Technical Datasheet (Page 2)
- » Chemical Datasheet (Page 3)
- » Safety Datasheet (Pages 4-6)

For any furthur information regarding food, fire and water certificates then please contact the sales team on 0114 256 0889

Technical Properties

Physical Properties	Test	Unit	Result
1. Specific gravity	ISO 1183	g/cm³	1.2
2. Water absorption	ISO 62	%	0.35
Maximum service temp. Upper temp limit (no stronger mechanical stress involved)	-	°C	120
Lower temp limit	-	°C	-30
Mechanical Properties	Test	Unit	Result
1. Tensile strength at yield	ISO 527	MPa	60
2. Elongation at yield	ISO 527	%	6
3. Tensile strength at break	ISO 527	MPa	72
4. Elongation at break	ISO 527	%	150
5. Impact strength	ISO 179	kJ/m²	no break
6. Notch impact strength	ISO 179	kJ/m²	55
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	M72 / R118
8. Shore-D	DIN 53505	-	-
9. Flexural strength	ISO 178	MPa	97
10. Modulus of elasticity	ISO 527	MPa	2300
Thermal Properties	Test Method	Unit	Result
1. Vicat-softening point VST/B/50	ISO 306	°C	151
2. Heat deflection temperature HDT/B	ISO 75	°C	143
HDT/A	-	°C	151
3. Coefficient of linear thermal expansion	ISO 75-2	(x10-5/°C)	0.68
4. Thermal conductivity at 20 °C	DIN 8302	W/(m*K)	0.20
Electrical Properties	Test Method	Unit	Result
1. Volume resistivity	VDE 0303	Ωxm	3x10 ¹⁴
2. Surface resistivity	-	Ω	6x10 ¹⁶
3. Dielectric constant at 1MHz	-	-	2.7
4. Dielectric loss factor at 1 MHz	DIN 53483	-	0.01
5. Dielectric strength	VDE 0303	kV/mm	17
6. Tracking resistance (CTI)	IEC 60112	_	250
• • • •		Unit	
Additional Data	Test Method	Onit	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
+	0	-

Chemical Properties

20°C 60°C Hydrofloric acid 40 - Acetic Acid 100 - - Hydrogen perxxide 10 + Acetone 100 - - Hydrogen perxxide 10 + Armmonia Conc. - Isopropyl Alcohol 100 - - Ammonia Conc. + + Mercurcohrome 0 - Ammonia 100 + + Methyl alcohol 100 - - Benzene - - Methyl ethyl ketone 100 - - Boric Acid 100 + + + Oxalic Acid 10 - - Butyl Acetate - - Nitric acid 10 + + - <	Agent	Conc %	Working	Temp	Agent	Conc %	Working	Temp
Acetone 100 - - Hydrogen Sulphide + Ammonia Conc. - - Isopropyl Alcohol 100 o Ammonium chloride + + Mercurochrome o - Ammonia 100 + - Methyl alcohol 100 - - Benzene - - Methyl alcohol 100 - - Bleaching Solution 12,5 Cl - - Methyl ethyl ethole 100 - - Butyl Acetate - - Methyl ethole 100 -			20°C	60°C	Hydrofloric acid	40	-	-
Ammonia Conc. - Isopropyl Alcohol 100 o Ammonium chloride + + Mercurochrome o - Ammyl Alcohol - Methyl alcohol 100 - - Benzene - - Methyl ethyl ketone 100 - - Boric Acid 100 + - Methyl letone 100 - - Brake Fluid 100 + - Mitric acid 10 o - <td>Acetic Acid</td> <td>100</td> <td>-</td> <td>-</td> <td>Hydrogen peroxide</td> <td>10</td> <td>+</td> <td></td>	Acetic Acid	100	-	-	Hydrogen peroxide	10	+	
Ammonium chloride + + Mercurochrome o Amyl Alcohol 100 - Methyl alcohol 100 - Benzene - - Methyl ethyl ketone 100 - - Bleaching Solution 12,5 Cl - - Methyl ethyl ketone 100 - - Boric Acid 100 + - Methyl enchloride 100 - - Bardy I Acetate - - - Nitric acid 50 - - Calcium Chloride + + + Ozalic Acid + + -	Acetone	100	-	-	Hydrogen Sulphide		+	
Amyl Alcohol 100 - - Benzene - - Methyl ethyl ketone 100 - Bleaching Solution 12,5 Cl - - Methyl ethyl ketone 100 - Boric Acid 100 + - Methylene chloride 100 - - Barke Fluid - - Nitric acid 50 - - Butyl Acetate - - Nitric acid 50 - - Calcium Chloride + + + Oxalic Acid + + Carbon fisuphide 100 - - Paraffin Oil 100 + - Chlorine, gas 100 0 - Petroleum, aromatic free 100 0 - Chloroform - - Petroleum, aromatic free 100 - - - Cyclohexanone 100 - - Phosphoric Acid 50 + - Ethyl acetate 100 - - Progyl alcohol + + +	Ammonia	Conc.	-	-	Isopropyl Alcohol	100	0	
Benzene - - Methyl ethyl ketone 100 - - Bleaching Solution 12,5 Cl - - Methyl en chloride 100 - - Boric Acid 100 + - Nitric acid 100 o - Brake Fluid - - Nitric acid 50 - - Butyl Acetate - - Nitric acid 50 - - Calcium Chloride + + 4 Oxalic Acid + + -	Ammonium chloride		+	+	Mercurochrome		0	
Bleaching Solution 12,5 Cl - Methylen chloride 100 - Boric Acid 100 + Nitric acid 10 o Brake Fluid - Nitric acid 50 - Butyl Acetate - - Nitric acid 50 - Calcium Chloride + + - Nitric acid 50 - Carbon disulphide 100 - - Ozone, gas ca.0,5 ppm o Carbon Tetrachloride - - Paraffin Oil 100 + - Chlorobenzene 100 - - Petroleum anomatic free 100 - Chlorobrm - - Phosphoric Acid 50 + Cyclohexanone 100 - - Propyl alcohol + Cyclohexano 100 - - Sodium chloride, aqu + Diesel Fuel o - Sodium chloride, aqu + + Ethyl acetate	Amyl Alcohol				Methyl alcohol	100	-	-
Boric Acid 100 + Nitric acid 10 o Brake Fluid - - Nitric acid 50 - Butyl Acetate - - Nitric benzine - - Calcium Chloride + + Ozale Acid + - - Carbon disulphide 100 - - Ozone, gas ca. 0.5 ppm o Carbon disulphide 100 - - Paraffn Oil 100 + - Chlorobenzene 100 o - Petroleum 100 o - - Petroleum, aromatic free 0 - - Petroleum 100 -<	Benzene		-	-	Methyl ethyl ketone	100	-	-
Brake Fluid - - Nitric acid 50 - - Butyl Acetate - - Nitrobenzine - - Calcium Chloride + + + Ozone, gas ca. 0,5 ppm o Carbon disulphide 100 - - Paraffn Oil 100 + - Chlorine, gas 100 o - Perchlorethylene - - Chlorobenzene 100 - - Petroleum 100 o - Chloroform - - Petroleum, aromatic free 100 o - - Cyclohexanone 100 - - Phosphoric Acid 50 + - Cyclohexanone 100 - - Propyl alcohol + + + Cyclohexanone 100 - - Propyl alcohol + + + Cyclohexanone 100 - - Sodium cabonate. aqu + + Ethyl acetate 100 - - Sodium cabonate. aq	Bleaching Solution	12,5 CI	-	-	Methylene chloride	100	-	-
Butyl AcetateCalcium Chloride++Carbon disulphide100Carbon disulphide100Carbon TetrachlorideChlorine, gas1000-Chlorobenzene100ChloroformChloroformChloroformChloroformChloroformChloroformCresolCyclohexanone100-100Cyclohexanone100-100Cyclohexanone100-100Cyclohexanone100-100Ethyl acetate100-Ethyl acetate100-Formic Acid10+Formic Acid10+Fuel, aromatic free-Fuel, aromatic free-Glycerine100+Glycerine100+Heating oil0-Heptane100-Heptane100-Hydrochloric acid10+Ticklorethylene100-Hydrochloric acid10-Hydrochloric acid10-Hydrochloric acid10-Hydrochloric acid10-Hydrochloric acid	Boric Acid	100	+		Nitric acid	10	0	
Calcium Chloride + + + Oxalic Acid + Carbon disulphide 100 - - Ozone, gas ca. 0.5 ppm o Carbon Tetrachloride - - Paraffin Oil 100 + - Chlorine, gas 100 o - Perchlorethylene - - Chlorobenzene 100 - - Petroleum, aromatic free 100 o - Chloroform - - Petroleum, aromatic free 100 o - Citric Acid 10 + + Phenol, aqu ca.9 - - Cyclohexanone 100 - - Phosphoric Acid 50 + - Diesel Fuel o - Propyl alcohol + + + + Ethyl acetate 100 - - Sodium carbonate. aqu + + Ethyl acohol 96 +/o o Sodium Hydroxide liquor 60 - - Frost protection agent + + Sodium Hydroxi	Brake Fluid				Nitric acid	50	-	-
Carbon disulphide 100 - - Ozone, gas ca. 0,5 ppm o Carbon Tetrachloride - - Paraffin Oil 100 + Chlorine, gas 100 o - Perchlorethylene - - Chlorobenzene 100 - - Petroleum, aromatic free 100 o - Chloroform - - Petroleum, aromatic free 100 o - Citric Acid 10 + + Phenol, aqu ca.9 - - Cyclohexanone 100 - - Phosphoric Acid 50 + Diesel Fuel o - Propyl alcohol + + Diesel Fuel o - Sodium carbonate. aqu + + Ethyl acetate 100 - - Sodium carbonate. aqu + + Formic Acid 10 + Sodium hydrogen sulphite + + Fuel, aromatic free -	Butyl Acetate		-	-	Nitrobenzine		-	-
Carbon Tetrachloride - Paraffin Oil 100 + Chlorine, gas 100 o Perchlorethylene - - Chlorobenzene 100 - - Petroleum 100 o Chloroform - - Petroleum, aromatic free 100 o - Chloroform - - Petroleum, aromatic free 100 o - Choroform - - Phenol, aqu ca.9 - - Cresol - - Phosphoric Acid 50 + - Cyclohexanone 100 - - Propyl alcohol + - Diesel Fuel o - Sodium carbonate. aqu + + + Ethyl alcohol 96 +/o o Sodium carbonate. aqu + + Ethyl alcohol 96 +/o o Sodium hydroxide liquor 60 - - Frost protection agent + +	Calcium Chloride		+	+	Oxalic Acid		+	
Chlorine, gas 100 o Perchlorethylene . . Chlorobenzene 100 - - Petroleum, aromatic free 100 o - Chloroform - - Petroleum, aromatic free 100 o - Citric Acid 10 + + Phenol, aqu ca.9 - - Cresol - - Phosphoric Acid 50 + -	Carbon disulphide	100	-	-	Ozone, gas	ca. 0,5 ppm	0	
Chlorobenzene 100 - - Petroleum 100 o Chloroform - - Petroleum, aromatic free 100 o - Citric Acid 10 + + Phenol, aqu ca.9 - - Cresol - - Phosphoric Acid 50 + - Cyclohexanone 100 - - Phosphoric Acid 50 - - Cyclohexene 100 - - Propyl alcohol + -	Carbon Tetrachloride		-	-	Paraffin Oil	100	+	
ChloroformPetroleum, aromatic free100o-Citric Acid10++Phenol, aquca.9CresolPhosphoric Acid50+-Cyclohexanone100Potassium hydroxide liquor50Cyclohexene100Propyl alcohol+Diesel Fuelo-PyridineEthyl acetate100Sodium carbonate. aqu++Ethylachohol96+/ooSodium chloride, aqu++Formic Acid10+-Sodium hydroxide liquor60Frost protection agent++Sodium hydroxide liquor60Glycerine100+/ooSodium thiosulfate++-Glycol100+-Sulphuric Acid96Heating oilo-Tetrahydrofurance100Heptane100Toluene100Hydrochloric acid10+-Trichlorethylene100	Chlorine, gas	100	0		Perchlorethylene		-	-
Citric Acid10++Phenol, aquca.9Cresol-Phosphoric Acid50+-Cyclohexanone100Potassium hydroxide liquor50Cyclohexene100Propyl alcohol+Diesel Fuelo-Silicone oil+++Ethyl acetate100Sodium carbonate. aqu++Ethyl alcohol96+/ooSodium carbonate. aqu++Formic Acid10Sodium chloride, aqu++Formic Acid10+Sodium hydrogen sulphite++Fuel, aromatic freeSodium nitrate, aqu++Glycol100+/ooSodium thiosulfateHeating oilo-Sulphuric Acid96Heptane100Tichlorethylene100Hydrochloric acid10+-Sulphuric Acid96Heptane100Tichlorethylene100Hydrochloric acid10+Image: State Sta	Chlorobenzene	100	-	-	Petroleum	100	0	
Cresol-Phosphoric Acid50+Cyclohexanone100-Potassium hydroxide liquor50Cyclohexene100-Propyl alcohol+Diesel FueloPyridineEthyl acetate100Silicone oil++Ethyl acetate100Sodium carbonate. aqu++Ethyl alcohol96+/ooSodium carbonate. aqu++Formic Acid10+Sodium chloride, aqu++Formic Acid10+Sodium hydroxide liquor60Frost protection agent++Sodium nitrate, aqu++Fuel, aromatic freeSodium thiosulfate++Glycorine100+/ooSodium thiosulfateHeating oilo-Tetrahydrofurance100Heptane100Toluene100Hydrochloric acid10+Trichlorethylene100	Chloroform		-	-	Petroleum, aromatic free	100	0	-
Cyclohexanone100-Potassium hydroxide liquor50-Cyclohexene100-Propyl alcohol+Diesel FueloPyridineEthyl acetate100Silicone oil+Ethyl alcohol96+/ooSodium carbonate. aqu++Ethylene Chloride100Sodium chloride, aqu++Formic Acid10+Sodium hydroxide liquor60Frost protection agent+Sodium hydrogen sulphite++Glycerine100+/ooSodium thiosulfate+Glycol100+Sulphuric Acid96Heating oilo-Ticthalydrofurance100Heptane100Tichlorethylene100Hydrochloric acid10+Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10<	Citric Acid	10	+	+	Phenol, aqu	ca.9	-	-
Cyclohexene100-Propyl alcohol+Diesel FueloPyridineEthyl acetate100Silicone oil+Ethyl alcohol96+/ooSodium carbonate. aqu++Ethylene Chloride100Sodium carbonate. aqu++Formic Acid10+Sodium chloride, aqu60Frost protection agent+Sodium hydrogen sulphite++Fuel, aromatic free-Sodium nitrate, aqu++Glycol100+/ooSodium thiosulfateGlycol100Sulphuric Acid96Heating oilo-Toluene100Hydrochloric acid10Trichlorethylene100Hydrochloric acid10+Hydrochloric acid10+Hydrochloric acid10Hydrochloric acid10Hydrochloric acid10+Hydrochloric acid10Hydrochloric acid10+Hydrochloric acid10+Hydrochloric a	Cresol		-	-	Phosphoric Acid	50	+	
Diesel FueloPyridineEthyl acetate100Silicone oil++Ethyl alcohol96+/o0Sodium carbonate. aqu++Ethylene Chloride100Sodium chloride, aqu++Formic Acid10+Sodium chloride, aqu60Frost protection agent+Sodium hydrogen sulphite++Fuel, aromatic freeSodium nitrate, aqu++Glycerine100+/o0Sodium thiosulfateGlycol100+-Sulphuric Acid96Heating oilo-Toluene100Hydrochloric acid10+-Trichlorethylene100	Cyclohexanone	100	-	-	Potassium hydroxide liquor	50	-	-
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Formic Acid10+Sodium Hydroxide liquor60Frost protection agent+Sodium hydrogen sulphite++-++Fuel, aromatic freeSodium nitrate, aqu++++Glycerine100+/ooSodium thiosulfate++Glycol100+-Sulphuric Acid96Heating oilo-Tetrahydrofurance100 </td <td>Ethyl alcohol</td> <td>96</td> <td>+/o</td> <td>0</td> <td>Sodium carbonate. aqu</td> <td></td> <td>+</td> <td>+</td>	Ethyl alcohol	96	+/o	0	Sodium carbonate. aqu		+	+
Frost protection agent+Sodium hydrogen sulphite+Fuel, aromatic free-Sodium nitrate, aqu++Glycerine100+/ooSodium thiosulfate++Glycol100+Sulphuric Acid96Heating oiloTetrahydrofurance100Heptane100Toluene100Hydrochloric acid10+Trichlorethylene100	Ethylene Chloride	100	-	-	Sodium chloride, aqu		+	+
Fuel, aromatic free-Sodium nitrate, aqu++Glycerine100+/ooSodium thiosulfateGlycol100+Sulphuric Acid96Heating oiloTetrahydrofurance100Heptane100Toluene100-Hydrochloric acid10+Trichlorethylene100-	Formic Acid	10	+		Sodium Hydroxide liquor	60	-	-
Glycerine100+/ooSodium thiosulfateGlycol100+Sulphuric Acid96-Heating oiloTetrahydrofurance100Heptane100-Toluene100Hydrochloric acid10+Trichlorethylene100	Frost protection agent		+		Sodium hydrogen sulphite		+	
Glycol100+Sulphuric Acid96-Heating oil0Tetrahydrofurance100Heptane100-Toluene100Hydrochloric acid10+Trichlorethylene100	Fuel, aromatic free		-		Sodium nitrate, aqu		+	+
Heating oiloTetrahydrofurance100Heptane100Toluene100Hydrochloric acid10+Trichlorethylene100	Glycerine	100	+/o	0	Sodium thiosulfate			
Heptane100Toluene100Hydrochloric acid10+Trichlorethylene100	Glycol	100	+		Sulphuric Acid	96	-	-
Heptane100Toluene100Hydrochloric acid10+Trichlorethylene100	Heating oil		0		Tetrahydrofurance	100	-	-
	Heptane	100	-	-	Toluene	100	-	-
	Hydrochloric acid	10	+		Trichlorethylene	100	-	-
	Hydrochloric acid	conc.	o/-	-			-	-

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	-

Direct



Safety Properties

Substance / preparation and company detail

Polycarbonate (PC) Direct Plastics Limited Rother Valley Way, Holbrook, Sheffield, S20 3RW 0114 2560889

Composition / indications to components

Chemical characterization : Polycarbonate (PC) **Hazardous substances :** Product contains no hazardous ingredients liable to be disclosed.

Possible dangers

Classification : Not classified Physical/ chemical hazards : Flammable Health risks : Dust can cause mechanical irritation. Hazards for the environment: Based on our information, there is no danger to the environment. The product is according to Directive 1999/45/EC and its annexes are not classified as dangerous.

First-aid measures

General information : The product is being classified as non-toxic.

In case of inhalation : In case the plastic burns and combustion gases are inhaled, remove person to fresh air and keep warm and get medical help if necessary.

In case of skin contact : Burns caused by molten material on skin need to be rapidly cooled down with water; do not attempt removal of plastic without medical assistance. If irritation develops, seek medical attention.

In case of eye contact : Flush eyes well with copious quantities of water. Seek medical attention, if irritation persists. **In case of ingestion :** The product is non-toxic; no first aid procedures are required.

First-fighting measures

Suitable extinguisher: Water, foam, gaseous and dry extinguishing media

Particular endangerments by fire fighting and hazardous combustion products: Hazardous combustion products may emerge, apart from harmless Water (H2O); carbon dioxide (CO2) and mainly carbon monoxide (CO) depending on the amount of available environmental oxygen, containing ketones and aldehyde. Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible.

Fire fighting: Approved pressure demand breathing apparatus and protective clothing should be used for all fires. **Additional Information:** Residues after the fire, after appropriate rules dispose.

Measures in case of unintended release

Personal precautions : N/A Environmental precaution : N/A Methods for cleaning up : Mechanical removal

Handing and storage

Advice on safe handling: During machining of the stock shapes, evacuate swarf to prevent slipping or tripping. Storage: Store inert product dry and cool. Keep storage and working areas sufficiently ventilated. Keep away form source of flame, heat and ignition. Due to the risk of collapsing, do not stack more than 2 pallets on to of each other. Pallets should not stack on to of each other along aisles.

Polycarbonate | Sheet Extruded

Clear



Safety Properties

Limitation of exposition

Ingredients with occupational exposure limits to be monitored : none General protective and Hygiene measures : Keep the workplace sufficiently ventilated; thereby smoking; eating and drinking are not allowed. Continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Avoid breathing in gaseous degradation products and dust that may result by material overheating. Hand protection : Safety gloves in case of contact with warm material Eye protection : Safety goggles or shield during machining Body protection : Working clothes Respiratory protection : Adequate ventilation at workplace is required

Physical and chemical characteristics

Aggregate : solid Colour : product-specific Odour : slight, product specific Safety related facts Boiling point : N/A Melting point : 150 - 160 °C (DIN/EN/ISO 3146) Corrosion temperature : N/A Flash point : N/A Self ignition temperature : 560 °C (ASTM D1929) Explosion hazard or limit : non explosive Oxidizing characteristics : None Density (20 °C) : 1.20 g/cm³ (ISO 1183) Solubility (in Water 20 °C) : insoluble Viscosity : N/A Additional Information : None

Stability and reactivity

Conditions to avoid: Temperatures above melting point **Material to avoid:** Strong oxidant **Hazardous decomposition products:** Carbon monoxide CAS-Nr. 630-08-0

Toxic information

Acute toxicity: no data existing, except those mentioned below: Water-insoluble

Material Tests:

LD-50, oral: (male rat) >3,200 mg/kg (highest dose rate tested) LD-50, oral: (male mouse) >3,200 mg/kg (highest dose rate tested) Dermal LD-50: (Guinea pig) >1,000 mg/kg Skin irritation (guinea pig) Slight irritation Irritation of eyes (rabbit, unwashed eyes) Slight Irritation of eyes (rabbit, washed eyes) Slight Guinea pig None Additional information:

In our experience and according to information available to us the product is not harmful to health provided

Polycarbonate | Sheet Extruded

Direct

Safety Properties

Ecological information

The material does not harm the environment but is not biologically degradable.

Waste-disposal information

The product must be disposed in accordance with the local authorities.

Transport information

Not classified as hazardous under transport regulations.

Regulations

The product does not require a hazard warning label in accordance with EC directives.

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.