

Material Data Sheet

PC blend 79.3D

Elastomer	PC blend	Polycarbonate /ABS
Hardness	79	Sh D
Printing Speed	up to 200	mm/s
Colour	similar RAL	
Remarks	Print of mech./functional parts for outside use.	

Printing properties

Nozzle Temperature	275 ± 10	°C	
Heatbed Temperature	110 ± 5	°C	
Print speed	up to 200	mm/s	
Skirt height	up to the height of printed parts		
Fan speed	20-30	%	depends on parts

Mechanical properties

Density		1,22	g/cm ³	ISO 1183
MFR 220°C / 10 kg		22	g/10min	ISO 1183
MVR 220°C / 10 kg		20	cm ³ /10min	ISO 1183
Moisture Absorption 24 hours (28°C / humidity 37 %)		0,5	%	Prusa Polymers
Moisture Absorption 7 days (28°C / humidity 37 %)		1	%	Prusa Polymers
Heat deflection Temperature (0,45 MPa)		113	°C	ISO 75
Heat deflection Temperature (1,80 MPa)		93	°C	ISO 75
Interlayer adhesion		21 ± 2	MPa	Prusa Polymers
Mechanical properties of printed samples		Horizontal	Vertical	
Tensile Yield Strength (MPa)	MPa	63 ± 1	63 ± 1	ISO 527-1
Tensile Modulus	GPa	1,9 ± 0,1	1,8 ± 0,1	ISO 527-1
Elongation at Yield Point	%	5,8 ± 0,3	5,8 ± 0,2	ISO 527-1
Flexural strength	MPa	88 ± 1	94 ± 2	ISO 178
Flexural modulus	GPa	2,1 ± 0,1	2,2 ± 0,1	ISO 178
Deflection at Flex. strength	mm	11 ± 0,2	10,7 ± 0,2	ISO 178
Impact Strength Charpy	kJ/m ²	NB	NB	ISO 179-1
Impact S.Charpy notch	kJ/m ²	12 ± 1	12 ± 1	ISO 179-1

Note

The test results are mean values and represent typical material properties. They are gained under usual laboratory conditions and do not necessarily correspond to results measured on finished goods. The compound information does not release the user from the necessity to conduct his own testing's. Production methods and ingredients are subject to change with regard to technical progress and toxicological regulations

This document does not subject to a revision service

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PC blend Polycarbonate /ABS

- Hohe Schlagzähigkeit bei niedrigen Temperaturen
- Hitzebeständigkeit
- Hohe Festigkeit
- Leichte Verarbeitbarkeit
- Niedrige Schwindung und hohe Dimensionsstabilität
- Einfärb- & bedruckbar

PC blend Polycarbonate /ABS

- High impact strength at low temperatures
- Heat resistance
- High strength
- Easy processability
- Low shrinkage and high dimensional stability
- Colourable & printable

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