TECHNICAL DATA SHEET

PC-60

PC-60 is a material characterized by high strength, rigidity and resistance to high temperatures (HDT 143°C). It has a UL V2 flammability rating, which allows it to be used, for example, in the electrical and electronics industries. Due to its lightness and strength, it is used in the manufacture of components such as helmets and off-road vehicle body parts. In addition, it is characterized by increased resistance to UV radiation.

PHYSICAL CHARACTERISTICS

	VALUE	UNIT	TEST METHOD
Density	1,2	g/cm³	ISO 1183-1

THERMAL CHARACTERISTICS

	VALUE	UNIT	TEST METHOD
Deflection temperature under load (0.45 MPa)	143	°C	ISO 75-1,2
Flammability class	V2	-	UL 94

MECHANICAL CHARACTERISTICS

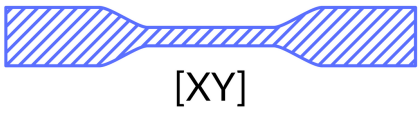
	VALUE	UNIT	TEST METHOD
Young's modulus [XY]	1462	MPa	ASTM D638
Tensile strength [XY]	60,4	MPa	ASTM D638
Extension strength [Z].	59,6	MPa	ASTM D638
Elongation at break [XY]	6,5	%	ASTM D639
Elongation at break [Z]	6,2	%	ASTM D640
Bending strength [XY]	86,8	MPa	ISO 178
Bending modulus [XY]	1790	MPa	IS0 178
Charpy impact strength (not notched) [XY].	NB*	kJ/m^2	ISO 179-1, 5J

*the sample did not break during the test

The test samples were printed in two orientations:

[XY] – horizontal

[Z] –vertical



[XY]

[Z]

SUGGESTED PRINTING PARAMETERS

Nozzle temperature	Table temperature	Chamber temperature	Temperature and drying time
280-320°C	110-140°C	70-130°C	120°C/4h