



MATERIAL DATA SHEET

extrudr DuraPro ABS

DESCRIPTION

Acrylonitrile Butadiene Styrene (ABS) is a very popular thermoplastic. It has a wide range of properties, making it suited to a large number of applications.

APPLICATION

The strength, flexibility, machinability and high-temperature resistance of ABS often makes it the plastic preferred by engineers and people intending to use plastic in a mechanical context.

STORAGE AND SHELF LIFE

Store at room temperature (18-27°C / 65-80°F), out of direct heat and sunlight, and in a dry place. When stored correctly, this material has a shelf life of 1 year.

PROPERTIES

TEST	METHOD	UNIT	VALUE
Flexural modulus	ASTM D790	MPa	2756
Tensile strength	ASTM D638	MPa	51,9
Breaking stress	ASTM D882	%	5,5
Elongation at break	ASTM D638	%	29
E-Modulus	ASTM D638	Mpa	2186
Flexural strength	ASTM D790	MPa	79,4
Impact resistance	ASTM D256	kJ/m ²	225 J/m
MFR	ASTM D1238	g/10 min	21
Melting temperature	ISO 3146-C	C°	180-200
VICAT A (VST)	ASTM D1525	C°	94
Shrinking	ASTM D955	%	0,4
Density	ASTM D792	g/cm ³	1,05
Flamability	UL94		HB
Arc Resistance	ASTM D495	Ohm/cm	6



VISUAL QUALITY

7



HIGH TEMPERATURE RESISTANCE

6



LAYER ADHESION

8



IMPACT RESISTANCE

8



ELONGATION AT BREAK

7



MAXIMUM STRESS

8



EASE OF PRINTING

5

TECHNICAL SUPPORT

EMAIL support@extrudr.eu

SPOOL DIAGRAM

	L1	L2	d1	d2	d3
	mm	mm	mm	mm	mm
0.8Kg	55	45	52	105	200
1Kg	67	59	52	105	200
2.5Kg	102	90	52	210	300
10Kg	244	210	51	190	335

