



MATERIAL DATA SHEET

extruder DuraPro ASA

DESCRIPTION

Acrylonitrile styrene acrylate (ASA) is an enhanced thermoplastic. It has a wide range of properties, making it suitable for a large number of applications.

APPLICATION

The strength, machinability, durability and weatherability makes ASA the preferred replacement for ABS. It has a higher impact resistance and is ideal for outdoor use due to its UV resistance.

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

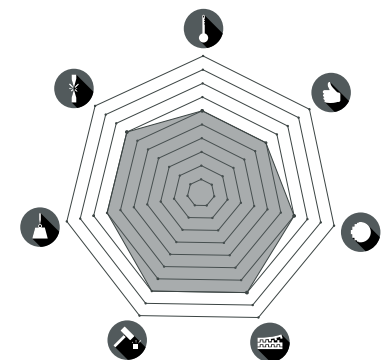
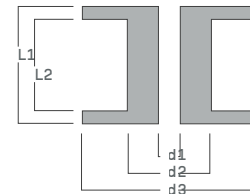
TEST	METHOD	UNIT	VALUE
Flexural modulus	ASTM D790	MPa	2196
Tensile strength	ASTM D638	MPa	47,6
Breaking stress	ASTM D882	%	5,5
Elongation at break	ASTM D638	%	26
E-Modulus	ASTM D638	Mpa	2059
Flexural strength	ASTM D790	MPa	74,5
Impact resistance	ASTM D256	kJ/m ²	167 J/m
MFR	ASTM D1238	g/10 min	12
Melting temperature	ISO 3146-C	C°	180-200
VICAT A (VST)	ASTM D1525	C°	98
Shrinking	ASTM D955	%	0,3
Density	ASTM D792	g/cm ³	1,05
Flamability	UL94		HB

TECHNICAL SUPPORT

EMAIL support@extruder.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



VISUAL QUALITY

7



HIGH TEMPERATURE RESISTANCE

6



LAYER ADHESION

8



IMPACT RESISTANCE

8



ELONGATION AT BREAK

7



MAXIMUM STRESS

7



EASE OF PRINTING

6