TECHNICAL DATA SHEET

PMA EcoGuard™ - RPPA - Corrugated Conduit

Very flexible, medium-grade, recycled content

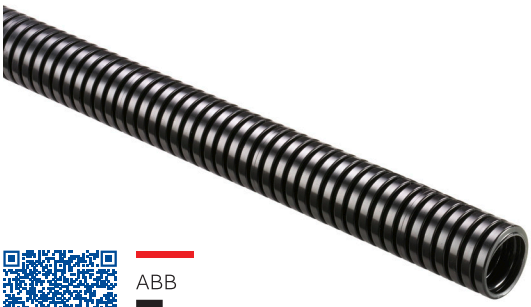


ABB Eco Solutions™

Presenting PMA EcoGuard™ PA6

- 50% recycle-based content primarily sourced from discarded fishing nets
- 30% savings in CO_2 emissions*
- Externally verified EPD (ISO 14025, Type III)

Applications:
- In machine and equipment applications

Features & Benefits:
- High flexibility
- Very good mechanical performance
- Externally verified EPD (ISO 14025, Type III)
- ABB EcoSolutions™ certified

Materials:
- Recycle-based polyamide 6
- High-grade, specially formulated polyamide 6

Compatible with:
- PMA EcoGuard product series
- PMAFIX Pro, PMAFIX, PMA Smart Line fittings
- PMA accessories

Temperature range:
- –45°C ... +105°C continuous, +160°C short-term

Conforms to:
- 50% recycle-based content primarily sourced from discarded fishing nets
- 30% savings in CO_2 emissions*
- 50% reduction in net use of fresh water*

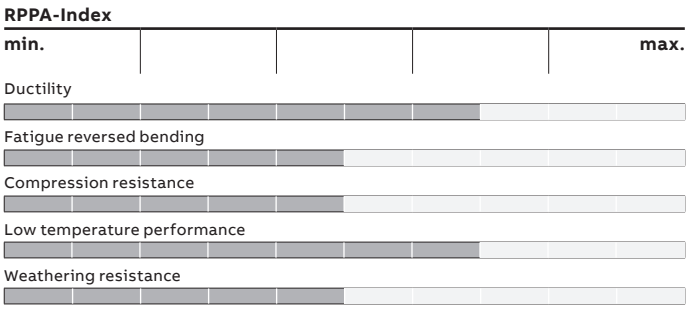
* in comparison to conventional alternative based on LCA data

Weathering resistance:
- Good UV resistance and weathering characteristics

Colour:
- Black

Chemical properties:
- Please refer to www.pma.ch (Technical Information / Chemical Resistance)

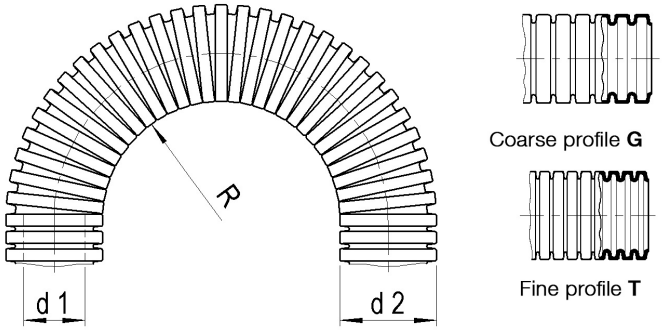
Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant



Product selection:

Part no.	Profile	Conduit size		rec. fitting thread size		Dimensions in mm (nom.)			Weight	Packing unit
black	T/G	NW	metric	PG	metric	d1	d2	stat. R	kg/100 m	metre
RPPAT-10B.50	T	10	12	9	M12 x 1.5	9.8	12.8	20	2.8	50
RPPAT-12B.50	T	12	16	11	M16 x 1.5	12.1	15.6	25	3.8	50
RPPAT-17B.50	T	17	20	16	M20 x 1.5	16.8	21.1	35	5.7	50
RPPAT-23B.50	T	23	25	21	M25 x 1.5	23.2	28.4	45	9.9	50
RPPAT-29B.50	T	29	32	29	M32 x 1.5	28.8	34.5	55	13.3	50
RPPAT-36B.30	T	36	40	36	M40 x 1.5	36.7	42.4	65	16.0	30
RPPAT-48B.30	T	48	50	48	M50 x 1.5	48.2	54.5	80	22.8	30

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



stat. R. = min. bending radius for static (fixed) installation

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	class 3 (> 2 J)	(-45 °C)	IEC EN 61386-23
	> 12.2 J	(-18 °C)	UL 1696 / CSA C22.2 Nr. 227.3
Compression strength	class 2 (320 N)		IEC EN 61386-23
Resistance to fatigue	class 2 (pliable)	(-45 °C)	IEC EN 61386-22
	class 4 (flexible)	(-25 °C)	IEC EN 61386-23
	> 20‘000 cycles	(+23 °C)	PMA DO 9.21-4420
Pull-out resistance conduit - fitting series			
PMAFIX IP66 & IP68	class 1 (100 N)		IEC EN 61386-23
PMA Smart Line IP66 (NW12-48)	class 1 (100 N)		IEC EN 61386-23
PMA Smart Line IP66 (NW10)	> 100 N		PMA DO 9.21-4610

Note: Testing at 23 °C, 50% r.h., conduit nominal width 17, unless otherwise stated

Thermal properties:	Value:	Test parameters:	Test method:
Application temperature range	–45 ... +105 °C		IEC EN 61386-22
Application temperature range	–25 ... +105 °C		IEC EN 61386-23
Application temperature range	–18 ... +105 °C		UL 1696 / CSA C22.2 Nr. 227.3
Upper application temperature	+120 °C	(20‘000 h)	PMA DO 9.21-4360
Short-term	+160 °C	(168 h)	PMA DO 9.21-4360

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	class 1 (non flame-propagating)		IEC EN 61386-23

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