

DERAY®-SET PROTECT

Adhesive lined heat shrink tube DERAY®-IAKT with various diameters and cut lengths, clear and black



Properties

- Flexible
- Adhesive adheres to plastics, rubber, neoprene, steel and many other materials
- Shrink ratio: 3:1
- Operating temperature: -55°C to 110°C*
- Shrink temperature: 95°C

*Outer jacket

Dimensions & Contents

Tray	Before Shrinking	After Shrinking		Contents		Colour
	Inner diameter mm	Inner diameter mm	Wall thickness mm	Length mm	Quantity per Case Pieces	
1	6,0	2,0	1,20	70	10	bk
2	9,0	3,0	1,40	70	6	bk
3	12,0	4,0	1,70	70	4	bk
4	6,0	2,0	1,20	70	10	cr
5	9,0	3,0	1,40	70	6	cr
6	12,0	4,0	1,7	70	4	cr
7	19,0	6,0	2,1	150	1	bk
	24,0	8,0	2,4	150	1	cr

Trays

7					
1	2	3	4	5	6

Technical data DERAY®-IAKT black

Productdatasheet	DERAY® - IAKT
Colour	coloured
Short description	Heat shrinkable sleeve, radially crosslinked with thermoplastic inner adhesive, Standard, Issued 06-2012

	Technical Data	Current Values	Test Methods
Material	Material	Polyolefin, modified, free of lead and cadmium	
	Specific gravity	1,25 g/ cm ³ max.	ASTM-D 792, A-I
	Longitudinal shrinkage	- 15 % max. (3:1) - 18 % max. (4:1)	ASTM-D 2671
Mechanical Properties	Tensile strength	15 MPa min.	IEC 60684-2
	Elongation	400 % min.	IEC 60684-2
	Secant modulus	175 MPa max.	ASTM-D 882
Thermal Properties	Thermal ageing	(168h at 150°C)	IEC 811-1-2
	Tensile strength	14 MPa	
	Elongation	320%	
	Thermal shock	(4h at 200°C)	
	Tensile strength	15 MPa	
	Elongation	360%	
	Cold bend test	does not break at -55°C	ASTM-D 2671 Meth. C
	Combustion behaviour	jacket selfextinguishing	ASTM-D 876
	Shrink temperature	+100°C to +200°C	
Chemical Properties	Continuous operating temperature	-55°C bis +110°C	IEC 216
	Storage temperature	max. +40°C	
	Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
	Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Electrical Properties	Resistance against chemicals	good	
	Water absorption	0,15%	VDE 0473
	Spec. volume resistivity	10 ¹⁴ Ω x cm	VDE 0303 Part 3
Printability	Dielectric strength	22 kV/mm	VDE 0303 Part 2
	Hot stamp printing	very good	
	Ink jet printing	good	
	Offset printing	good	

Technical data DERAY®-IAKT clear

Productdatasheet	DERAY® - IAKT
Colour	clear
Short description	Heat shrinkable sleeve, radially crosslinked with thermoplastic inner adhesive, Issued 10-2011, Standard

	Technical Data	Current Values	Test Methods
Material	Material	Polyolefin, modified, free of lead and cadmium	
	Specific gravity	1,00 g/ cm ³ max.	ASTM-D 792, A-I
	Longitudinal shrinkage	- 15 % max. / 3:1	ASTM-D 2671
Mechanical Properties	Shrink ratio	- 18 % max. / 4:1	
	Tensile strength	17 MPa min.	IEC 60684-2
	Elongation	450 % min.	IEC 60684-2
Thermal Properties	Secant modulus	175 MPa max.	ASTM-D 882
	Thermal ageing	(168h at 150°C)	IEC 811-1-2
	Tensile strength	15 MPa	
	Elongation	360%	
	Thermal shock	(4h at 200°C)	
	Tensile strength	16 MPa	
	Elongation	380%	
	Cold bend test	does not break at - 55°C	ASTM-D 2671 Methode C
	Combustion behaviour	passed	FMVSS 302
Chemical Properties	Shrink temperature	+95°C to +200°C	
	Continuous operating temperature	-55°C bis +110°C	IEC 216
	Storage temperature	max. +40°C	
	Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Electrical Properties	Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
	Resistance against chemicals	good	
	Water absorption	0,17%	VDE 0473
Printability	Resistance against mould	does not promote mould growth	ISO 846
	Spec. volume resistivity	10 ¹⁴ Ω x cm	VDE 0303 Part 3
	Dielectric strength	23 kV/mm	VDE 0303 Part 2
	Hot stamp printing	very good	
	Ink jet printing	good	
	Offset printing	good	

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