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- suitable
- of limited suitability
- ++ very good
- + good
- o limited

These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

## Material Data

Page	Material	Operating Temperature [°C]
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## Cable Management Systems

Helawrap HWPP	398	PP	-60 °C to +110 °C, intermittent +140 °C
Helawrap HWPAV0	399	PA6V0	-40 °C to +90 °C, intermittent +120 °C
Helawrap Accessories	400	PA66HIRHS	-40 °C to +105 °C

## Spiral Binding

SBPE	402	PE	-60 °C to +90 °C, intermittent +120 °C
SBPEFR	403	PEFR	-60 °C to +80 °C, intermittent +120 °C
SBPA	404	PA6	-60 °C to +95 °C, intermittent +130 °C
SBPAV0	405	PA6V0	-40 °C to +90 °C, intermittent +120 °C
SBPTFE	406	PTFE	-60 °C to +260 °C, intermittent +350 °C
SPS	407	PP	-30 °C to +100 °C
SPF	408	PP	-30 °C to +100 °C

## Flexible Cable Support

Heladuct Flex	409	PP	-20 °C to +70 °C
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## Braided Sleeving

Helagain HEGP	410	PET	-50 °C to +150 °C, intermittent +220 °C
Helagain HEGPX	411	PET	-50 °C to +150 °C, intermittent +220 °C
Helagain HEGPV0	412	PBT	-70 °C to +150 °C, intermittent +200 °C
Helagain HEGPV0X	413	PBT	-70 °C to +150 °C, intermittent +200 °C
Helagain HEGPA66	414	PA66	-60 °C to +150 °C, intermittent +200 °C
Helagain HEGSAS	415	PET	-50 °C to +150 °C, intermittent +200 °C
Helagain HEGEMIP	416	CU, PET	-40 °C to +175 °C, intermittent +200 °C
Helagain HEGEMIPV0	417	CU, PBT	-40 °C to +175 °C, intermittent +200 °C
Helagain HEGPL	418	PET	-50 °C to +150 °C, intermittent +220 °C
Helagain HLB	419	PET	-50 °C to +150 °C, intermittent +220 °C
HEGMAN	420	NOMEX®	+240 °C
HEGMANWO	420	NOMEX®	+240 °C

## Fabric Tubing

Helagain Twist-In	422	PET	-70 °C to +125 °C
Helagain Twist-In-FR	423	PET	-50 °C to +125 °C
HELAHOOK	421	PET	-50 °C to +150 °C



	Resistant properties					Possible applications															Sample applications				
	UV-light/ozone*	Oils and greases	Solvents	Petrol	Flammability	Switch board manufacture	Machinery and equipment manufacture	Railway vehicles	Petro/chemical Industrie	Offshore Industry	Telecommunications	Shipbuilding	Harnessmaker	Robotics industry	Public buildings	Automotive industry	Aerospace industries	Wind energy	Solar energy	Bundling of cables and wires	Wiring in switchboards	Protection of wires	Insulation of wires	Fastenings of ducts	
	o	++	+	+	o	■	■	■	■	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	++	+	+	++	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	++	+	++	+	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
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	+	+	+	+	o	■	■	■	■	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	+	+	+	+	+	■	■	■	■	□	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
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	o	++	+	+	++	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
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	o	++	+	+	o	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
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	o	++	+	++	+	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	++	+	++	++	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	++	+	++	++	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	++	+	++	+	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
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	o	++	++	++	++	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	o	+	+	++	+	■	■	□	□	□	■	■	■	□	□	■	■	■	■	■	■	■	■	■	
	o	+	+	++	++	□	■	■	□	□	■	■	■	□	□	■	■	■	■	■	■	■	■	■	
	o	++	+	++	+	□	□	■	■	■	■	■	□	□	■	■	■	■	■	■	■	■	■	■	



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## Material Data

Page	Material	Operating Temperature [°C]
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## Edge Protection

Beading PVC	425	PVC	-65 °C to +105 °C
G51P	426	PE	-30 °C to +80 °C, intermittent +120 °C (200h)
G51N	427	PA6	-60 °C to +95 °C, intermittent +130 °C (200h)
G51T	427	PTFE	-60 °C to +260 °C, intermittent +350 °C (200h)

## Grommets

Protective Push On Caps	428	PVC	-30 °C to +60 °C
Protective Push On Caps	428	PE	-10 °C to +70 °C
Elbow Grommets	429	PVC	-30 °C to +60 °C
Bend Protection Grommets	430	PVC	-30 °C to +60 °C
Strain Protection Grommets H3A-H4202	432	PVC	-30 °C to +60 °C
Strain Protection Grommets H125-H321	433	HV	-30 °C to +60 °C
Edge Protection Grommets HV1101-HV1502	434	PVC	-30 °C to +60 °C
HOTKIT	435	PVC	-30 °C to +60 °C



	Hardness	Resistant properties						Possible applications							Specific applications					
	Shore-A (+ - 5 according to DIN 53 505)	UV light/ozone*	Oils and greases	Solvents	Fuels	Moisture	Flammability	Household appliances	Machinery and equipment manufacture	Railway vehicles	Harnessmaker	Automotive industry	Aerospace industries	Wind energy	Solar energy	Cable protection	Flat connectors	Mechanical protection	Chafing Protection	Plastic housing
	-	+	+	+	+	++	+	■	■	■	■	■			■				■	
	-	+	+	+	o	++	+	■	■			■			■				■	□
	-	o	+	+	++	o	+		■						■				■	■
	-	++	++	++	++	++	++		■				■		■				■	■
	60 +/- 5	+	o	o	o	++	+		■		■	■			■		■			
	nom. 45	+	+	+	o	++	+		■	■	■	■			■		■			
	60 +/- 5	+	o	o	o	++	+		■		■	■			■		■			
	60 +/- 5	+	o	o	o	++	+	■	■		■				■				■	□
	60 +/- 5	+	o	o	o	++	+	■	■		■				■				■	□
	60 +/- 5	+	o	o	o	++	+	■	■		■				■				■	■
	56 +/- 5	+	o	o	o	++	+		■	■	■				■				■	□
	-	+	o	o	o	++	+	■	■		■				■				■	□