

banding tapes

POLYGLAS® tapes

P30 / H200 / H220 / K220

Main Characteristics

Minimal Tensile strength	N/cm	2000	2000	2000	4000	IEC 60934-2
Pull in banding	N/cm	≤1000	≤1000	≤1000	≤2000	

* content of 22% on request

Shelf life as supplied						
at 10°C	Months	24	24	24	24	before removing cool material from plastics bag let the tape reach room temperature
at 15°C	Months	18	18	18	18	
at 20°C	Months	12	12	12	12	
at 30°C	Months	8	8	8	8	

Characteristics after application and curing		P30	H200	H220	K220	Test Norm
Thermal Class	°C	155 (F)	200 (H+)	220 (C)	220 (C)	IEC 60085
Cured Thickness	mm	0.25 ± 0.02	0.25 ± 0.02	0.25 ± 0.02	0.31 ± 0.02	
Minimal Tensile Strength referred to						
one tape layer at 20 °C	N/cm	2500	2500	2500	3500	
one tape layer at thermal class	N/cm	1800	1800	1800	2500	
Modulus of Elasticity						
at 20 °C	N/mm ²	62000	62000	62000	80000	
at thermal class	N/mm ²	50500	52000	50500	65000	
Elongation at break at 20°C	%	1,6	1,6	1,6	0,6	
Elongation at break at thermal class	%	1,4	1,4	1,4	0,5	
Breaking load at -35 °C	N/cm	2700	2700	2700	2700	
Coefficient of Linear Expansion	1/°C	6,5 E-6	6,5 E-6	6,5 E-6	6,5 E-6	
Thermal conductivity	W/(m °C)	0,53	0,53	0,53	0,48	
Radiation Index at 10 ⁵ Gy/h		> 8	> 8	> 8	> 8	IEC 544-4
Tracking Index CTI		600	600	600	380	IEC 60112
Arc Resistance	s	180	180	180	180	ASTM D 495
Vertical Fire resistance over 12 mm		V1	V0	V0	V0	UL94
Breakdown Voltage in oil at 20 °C						
natural conditions	KV/cm	28 ± 2	28 ± 2	28 ± 2	28 ± 2	IEC 60243-1
after 24 h in water at 23 °C	KV/cm	8 ± 2	13 ± 2	13 ± 2	10 ± 2	IEC 60243-2

EIM – Electrical Insulation Materials

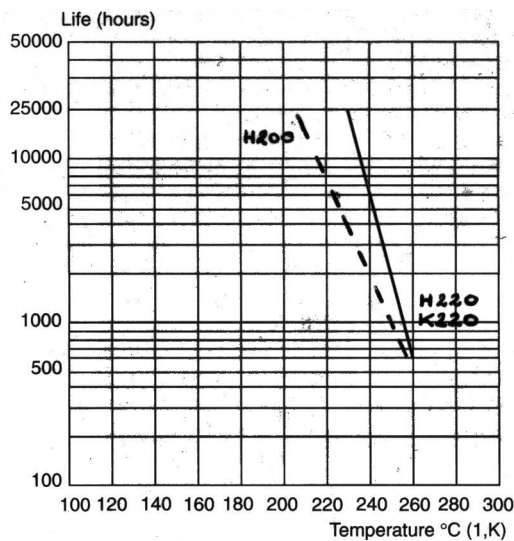
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POLYGLAS® THERMAL RATING GRAPH

Thermal life based on changes of flexural strength
Ageing Temperatures: 220 °C, 240 °C, 260 °C
Specimen thickness of 3 mm following IEC 60216



Temperature index:

Polyglas® H200 measured at 224 °C after 5.000 h and extrapolated at 204 °C after 20.000 h

Polyglas® H220 or Polyglas® K220 measured at 242 °C after 5.000 h and extrapolated at 230 °C after 20.000 h

Form of delivery

Polyglas® is normally supplied in polyethylene bags which shouldn't be tampered with until time of use.

Type A packing Flat pancakes plastic core ID 83 mm

Type B packing Spools, flange OD 160 mm, L 200 mm

Type C packing Spools, flange OD 290 mm, L 280 mm

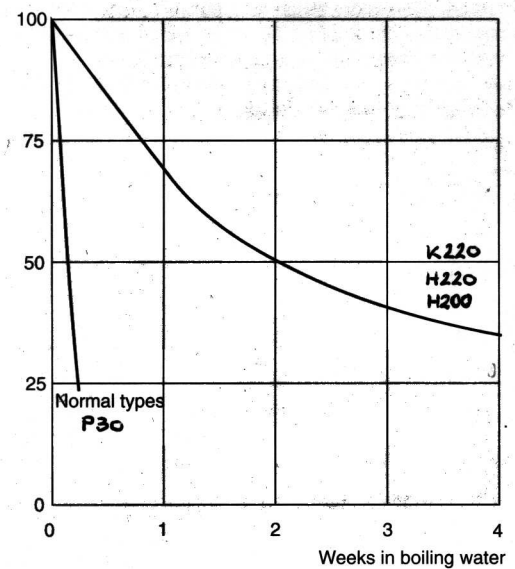
All widths available from 4 mm to 51 mm in type A packing 100 or 200 m long and in spools as per table aside.

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POLYGLAS® MOISTURE RESISTANCE

Percentage change in flexural strength after standing in boiling water (100 °C)
Specimen thickness of 3 mm following



Width	mm	10	15	20	25	30
Packing	-	B	B	C	C	C
Content	m	750	500	1800	1500	1200
Net Weight	Kg	4,2	4,2	21	22	21