



***Hostaphan® —
The Polyester Film
for Cable Identification Tapes***

bsa

mechanical properties of Hostaphan RG / RN

	Guide values Typ RG	RN	Unit	Test standard	Test conditions
Density	1.385	1.395	g/cm ³	ASTM-D 1505-67 Method C	23°C
Tensile strenght					Testing rate
longitudinal	280	200	N mm ²	DIN 53455 or	100% min;
transverse	250	200	N mm ²	VDE 0345 / 8.69	23°C, 50% r. F.
Elongation					Testing rate
longitudinal	80	110	%	DIN 53455 or	100% min;
transverse	110	110	%	VDE 0345 / 8.69	23°C, 50% r F.
Tensile stress required to Produce on elongation of 5%					Testing rate
longitudinal	145	-	N mm ²	DIN 53455	100% min;
transverse	125	-	N mm ²		23°C, 50% r. F

Dimensional stability of Hostaphan RG RN

	Guide values Typ RG RN		Unit	Test standard	Test conditions
Schrumpfung				DIN 40634	RN: 150°C; 15 min
longitudinal	1,5	2,0	%	or	
transverse	0,4	2,0	%	VDE 0345	RG: 1000C; 30 min
Coefficient Of linear expansion	2 - 10-5		1 / K	Internal method	20° – 50°C
Dimensional stability Under pressure	240		°C	DIN 40634 or VDE 0345	-
Dimensional stability under tension	240		°C	DIN 40634 or VDE 0345	-
Coefficient of Hygroscopic expansion	0,7 - 10-5		(% rel. hum.) ⁻¹	Interne method	40 - 80% rel. hum
Water absorption (compared to dry state)	0,5		%	DIN 53472	Immersion in water for 4 days at 2311C

Thermal properties of Hostaphan RG RN

	Guide values, Measured on 25 [m	Unit	Test standard	Test conditions
Melting point	260	°C	Differential- thermoanalyse	31°C / min
Max. service temperature for a few hours	up to + 150	°C	-	in air
for a few minutes	up to + 180	°C	-	in air
Usable in liquid gases	up to + 200	°C	-	in air
	down to - 269 (liquid He)	°C	-	
approved insulating material class in electrical engineering industry	B		VDE 0530 main list	
Specific heat	1300	$\frac{J}{kg \cdot K}$		
Thermal conductivity	0,13	$\frac{W}{m \cdot K}$	VDE 0304	
Flammability: no inflammable gases occur up to	400	°C	DIN 40634 oder VDE 0345	

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