Heat shrink tubing and abrasion protection

## Material properties REIKU®-Tubings

Material/type	BN	Version	Application	Reversed bending strength	Compression strength	
Polyamide 6 PN (PA 6) PARN	BN 22621 - BN 22622	Standard version medium quality	Machine, apparatus and vehicle construction <sup>1)</sup>	good	125 N/50 mm	
Polyamide 6 PA 6 PA R E	BN 22623 - BN 22624	Simple version light quality	Machine, apparatus and vehicle construction <sup>1)</sup>	good	125 N/50 mm	
Polyamide 12 (PA 12) PA R A B	BN 22633	Highly flexible version light quality	Suitable for robots dynamic burden	excellent	125 N/50 mm	
Polyamide 12 (PA 12) PA R R	BN 22630 - BN 22631	Highly flexible version, medium quality, «robot tubings»	Suitable for robots dynamic burden	very good	125 N/50 mm	
Polyamide 12 • <b>AU</b> • FII • (PA 12) PA A B B	BN 22319	Train, flexible quality	Railway, mass transportation, static	very good	Compressive property class 1 according to EN 61386-1	
Polyester Ester (TPE) TP R I B	BN 22627	Highly flexible medium quality	Vehicle construction industrial plant, insulation	good – very good	< 125 N/50 mm	
Thermopl. ₽₩ S Polyurethane (TPU) PURRB	BN 22635	Highly flexible version, medium quality, «robot tubings»	Suitable for robots, especially on strong dynamic burden <sup>1)</sup>	very good	< 125 N/50 mm	
Polyamide 6 PARTB	BN 22638	Two parts and closable, flexible	Switch cupboard, construction devices	good	-	
Polypropylene PPRTB	BN 22639	Two parts and closable, flexible	Switch cupboard, construction devices	satisfactory	-	

<sup>&</sup>lt;sup>1)</sup> USA Export, UL recognized File E 168970 (M) 105 °C In order to maintain the polyamide tubings properties of material, storage under following conditions is recommended: storage temperature: +20 °C ± 5 °C, humidity: 55 to 75 %.

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Impact strength	Temperature range	Flame Class DIN EN 61 386-1	Resistance to	color
6 joule @ -18°C > 20 joule @ RT	-40°C to +105°C +150°C short term	Halogen-free, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black grey
2 joule @ -18°C > 15 joule @ RT	-40°C to +105°C +150°C short term	Halogen-free, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black grey
4 joule @ -18°C > 4 joule @ RT	dyn5 °C to +85 °C stat40 °C to +105 °C	Halogen-free, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black
5 joule @ -18°C > 5 joule @ RT	dyn. –30 °C to +85 °C stat. –50 °C to +140 °C +150 °C short term	Halogen-free, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black grey
Class 3-4 according to EN 61386-1	-30 °C to +105 °C +150 °C short term	R22, HL2 indoor, R23 HL3 outdoor, DIN EN 45545-2, V-0, UL94	Alcohol, fats, mineraloils, diesel, fuel, weather, UV-rays	black
3 joule	-50°C to +160°C +180°C short term	Halogen-free	Acid and alkaline, oils, hydraulic oils	black
8 joule	dyn. –20 °C to +90 °C stat. –30 °C to +90 °C	Halogen-free	Acid and alkaline, oils, hydraulic oils	black
-	-40 °C to +120 °C +150 °C short term	Low halogen, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black
-	-40 °C to +135 °C +150 °C short term	Low halogen, self-extinguishing, non-flame spreading	Alcohol, grease, mineral oils, petrol, diesel oil	black

All mentioned values are valid at 20 °C and 50 % relative humidity (laboratory conditions) for tubings from nominal size 17F onwards. The above-mentioned corrugated tubings are UV-resistant. Special production as to color, version and dimension is possible on agreement. (Source: Reiku GmbH)

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