

Panduit® Cable tie selection chart

Follow this step-by-step process to find the cable ties that best suit your application:

Cable tie function

- Select the main function of the cable tie you need:
 - Bundle = Standard cable ties
 - Re-use = Nylon releasable ties
 - Identify = Marker and flag ties
 - Mount = Clamp ties, push mount ties, and stud mount ties

Material properties

- Determine the appropriate material for your application:
 - Mechanical
 - Chemical
 - Thermal

Cable tie family

- Select the cable tie family that meets your overall needs

	Cable tie function		Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle	Bundle	Bundle
	Material	Test method	Nylon 6.6	Weather resistant Nylon 6.6	Heat stabilized Nylon 6.6	Heat stabilized Nylon 6.6	Heat stabilized Weather resistant Nylon 6.6	TEFZEL ¹⁾
	Color	–	natural	black	black	natural	black	aqua blue
	Part number suffix (Material designation)	–	no suffix	0	30	39	300	76
Mechanical properties	Tensile strength at 23°C (psi)	ISO 527	12000	12000	12 000	12 000	12 000	7500
	Water absorption (24 hours)	ASTM D570	1,2%	1,2%	1,2%	1,2%	1,2%	< 0,03%
	Radiation resistance (Rads)	–	1 x 105	1 x 105	1 x 105	1 x 105	1 x 105	2 x 108
	Weathering life expectancy (years) / UV Resistance	–	1–2	7–9	4–5	1–2	7–9	> 15
	Impact resistance	–	○	○	○	○	○	●
Chemical resistance	Salts	–	●	●	●	●	●	●
	Hydrocarbons (Gas, oil, lubricants)	–	●	●	●	●	●	●
	Chlorinated hydrocarbons	–	●	●	●	●	●	●
	Acids	–	○	○	○	○	○	●
	Bases	–	●	●	●	●	●	●
	Acid Rain	–	●	●	●	●	●	●
Thermal properties	Max. continuous use temperature	UL 746B	85°C	85°C	115°C	115°C	100°C	170°C
	Min. application use temperature	EN 50146	–60°C	–60°C	–60°C	–60°C	–60°C	–60°C
	Flammability rating	UL 94	V-2	V-2	V-2	V-2	V-2	V-0
	Low smoke	ASTM E662	pass	pass	pass	pass	pass	–
	Oxygen index	BS ISO 4589	28	28	28	28	28	30
	Halogen-free	IEC 60754-2	yes	yes	yes	yes	yes	no
	Burning fume toxicity	BSS-7239	pass	pass	pass	pass	pass	–
Heat deflection temperature at 1,8 MPa	ASTM D648 ISO 75 -1/-2	70°C	70°C	63°C	70°C	70°C	–	

● Highest ● High ○ Acceptable ● Low ○ Lowest

¹⁾ TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company.

(Source: Panduit Corp.)

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	Product line			Cross sections				
Catalogue page cable tie	Pan-Ty®		■	SM, M, I, S	■	■	■	■
	Dome-Top® Barb Ty		■	M, I, S	■	■	■	
	Sta-Strap®		■	M, I, S, LH, H	■			

■ The square indicates material availability in that product line.

Cross Sections: SM = Subminiature, M = Miniature, I = Intermediate, S = Standard, LH = Light-Heavy, H = Heavy

(Source: Panduit Corp.)