Cable ties

## 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**

2. Determine the appropriate material for your application:

Mechanical Chemical Thermal

## Cable tie family

3. Select the cable tie family that meets your overall needs

	Cable tie function		Bundle, Re-use, Identify,	Bundle, Re-use, Identify,	Bundle, Re-use,			
			Mount	Mount	Mount	Bundle	Bundle	Bundle
	Material	Test method	Nylon 6.6	Weather resistant Nylon 6.6	Heat stabilized Nylon 6.6	Heat sta- bilized Nylon 6.6	Heat stabilized Weather resistant Nylon 6.6	TEFZEL <sup>1)</sup>
	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	12000	12000	12000	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	-	0	0	0	0	0	•
Chemical	Salts	-	•	•	<b>•</b>	•	•	•
resistance	Hydrocarbons (Gas, oil, lubricants)	-	•	•	•	•	•	•
	Chlorinated hydrocarbons	-	0	0	0	0	0	•
	Acids	_	0	0	0	0	0	•
	Bases	_	•	0	•	0	0	•
	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	-

ullet High ullet Acceptable ullet Low ullet Lowest

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<sup>&</sup>lt;sup>1)</sup> TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company. (Source: Panduit Corp.)

	Cable tie function		Bundle, Re-use, Identify, Mount	Bundle, Re-use, Identify, Mount	Bundle, Re-use, 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 <sup>1)</sup>
	Color	_	natural	black	black	natural	black	aqua blue
	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				

<sup>■</sup> The square indicates material availability in that product line.

 $\label{eq:coss_sections:} Cross \ Sections: SM = Subminiature, \ M = Miniature, \ I = Intermediate, \ S = Standard, \ LH = Light-Heavy, \ H = Heavy \ (Source: Panduit Corp.)$ 

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