

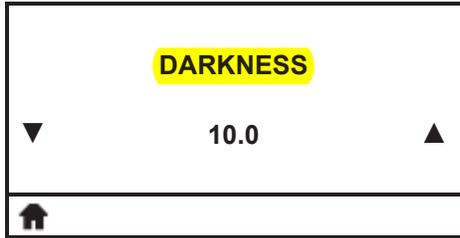
Print Settings

Table 1 • Print Settings

Print Darkness	Set the darkness to the lowest setting that provides good print quality. If you set the darkness too high, the label image may print unclearly, bar codes may not scan correctly, the ribbon may burn through, or the printhead may wear prematurely. If desired, use the <i>FEED Self Test</i> on page 162 to determine the best darkness setting.	
	<i>Accepted values:</i>	0.0 – 30.0
	<i>Related ZPL command(s):</i>	^MD, ~SD
	<i>SGD command used:</i>	print.tone
	<i>User menu item:</i>	DARKNESS on page 94
	<i>Printer web page:</i>	View and Modify Printer Settings > General Setup > Darkness
Print Speed	Select the speed for printing a label (given in inches per second). Slower print speeds typically yield better print quality.	
	<i>Accepted values:</i>	2, 3, 4, 5, 6
	<i>Related ZPL command(s):</i>	^PR
	<i>SGD command used:</i>	media.speed
	<i>User menu item:</i>	PRINT SPEED on page 94
	<i>Printer web page:</i>	N/A
Media Type	Select the type of media that you are using. <ul style="list-style-type: none"> If you select CONTINUOUS, you must include a label length in your label format (^LL if you are using ZPL). If you select GAP/NOTCH or MARK for various non-continuous media, the printer feeds media to calculate the label length. See <i>Types of Media</i> on page 16 for more information.	
	<i>Accepted values:</i>	<ul style="list-style-type: none"> CONTINUOUS GAP/NOTCH MARK
	<i>Related ZPL command(s):</i>	^MN
	<i>SGD command used:</i>	ezpl.media_type
	<i>User menu item:</i>	MEDIA TYPE on page 94
	<i>Printer web page:</i>	View and Modify Printer Settings > Media Setup > Media Type

SETTINGS Menu

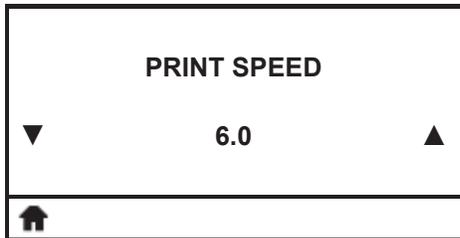
Items in this menu are shown in the order in which they appear when you press the RIGHT ARROW. For more information about these settings, see [Print Settings on page 67](#).



Adjust the Print Darkness

Set the darkness to the lowest setting that provides good print quality. If you set the darkness too high, the label image may print unclearly, bar codes may not scan correctly, the ribbon may burn through, or the printhead may wear prematurely.

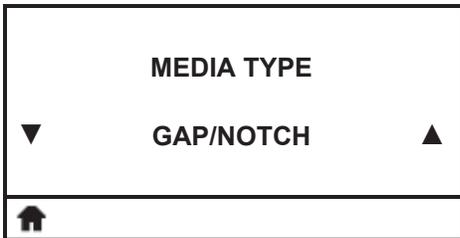
See [Print Darkness on page 67](#) for more information.



Select the Print Speed

Select the speed for printing a label (given in inches per second). Slower print speeds typically yield better print quality.

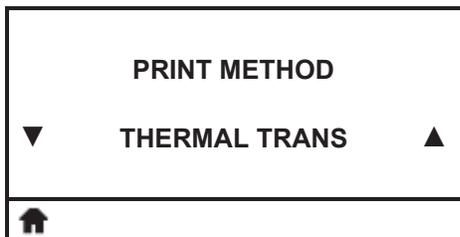
See [Print Speed on page 67](#) for more information.



Set the Media Type

Select the type of media that you are using.

See [Media Type on page 67](#) for more information.



Select the Print Method

Specify if the printer is to use Direct Thermal mode (no ribbon) or Thermal Transfer mode (using thermal transfer media and ribbon).

See [Print Method on page 68](#) for more information.

Figure 5 • Bar Code Darkness Comparison

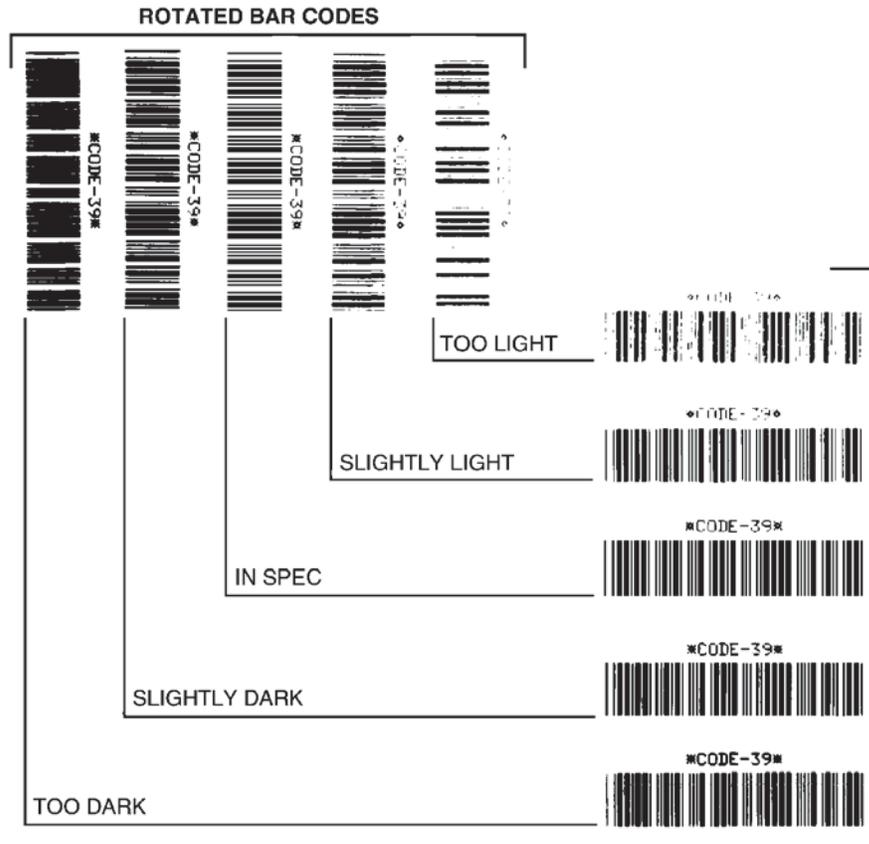


Table 7 • Judging Bar Code Quality

Print Quality	Description
Too dark	<p>Labels that are too dark are fairly obvious. They may be readable but not “in-spec.”</p> <ul style="list-style-type: none"> • The normal bar code bars increase in size. • The openings in small alphanumeric characters may fill in with ink. • Rotated bar code bars and spaces run together.
Slightly dark	<p>Slightly dark labels are not as obvious.</p> <ul style="list-style-type: none"> • The normal bar code will be “in-spec.” • Small character alpha numerics will be bold and could be slightly filled in. • The rotated bar code spaces are small when compared to the “in-spec” code, possibly making the code unreadable.

Table 7 • Judging Bar Code Quality (Continued)

Print Quality	Description
“In-spec”	<p>The “in-spec” bar code can only be confirmed by a verifier, but it should exhibit some visible characteristics.</p> <ul style="list-style-type: none"> • The normal bar code will have complete, even bars and clear, distinct spaces. • The rotated bar code will have complete, even bars and clear, distinct spaces. Although it may not look as good as a slightly dark bar code, the bar code will be “in-spec.” • In both normal and rotated styles, small alphanumeric characters look complete.
Slightly light	<p>Slightly light labels are, in some cases, preferred to slightly dark ones for “in-spec” bar codes.</p> <ul style="list-style-type: none"> • Both normal and rotated bar codes will be in spec, but small alphanumeric characters may not be complete.
Too light	<p>Labels that are too light are obvious.</p> <ul style="list-style-type: none"> • Both normal and rotated bar codes have incomplete bars and spaces. • Small alphanumeric characters are unreadable.

5. Note the relative darkness value and the print speed printed on the best test label.
6. Add or subtract the relative darkness value from the darkness value specified on the configuration label. The resulting numeric value is the best darkness value for that specific label/ribbon combination and print speed.
7. If necessary, change the darkness value to the darkness value on the best test label.
8. If necessary, change the print speed to the same speed as on the best test label.