

IMPAC IPE 140/34

Addendum to IPE 140 Data sheet

Special version of IPE 140 with a spectral range of 3.43 μm for measurements of plastic films in temperatures between 50 and 500°C.



The Impac® IPE 140/34 is a special pyrometer for non-contact temperature measurement of plastic films, especially extremely thin Polyethylen- or Polypropylen films with a minimum material thickness of only 30 μm . Like the basic IPE 140, the IPE140/34 is a highly accurate digital pyrometer. It is operating in an extremely narrow spectral range of 3.43 μm . This enables the precise measurement of plastic films. Three different focusable optics are available for optimal match of the instrument to the application.

PRODUCT HIGHLIGHTS

- Measurement of plastic films, especially extremely thin PE and PP films with a thickness from 30 μm
- Two temperature ranges between 50 and 500°C (122 and 932°F)
- Spectral range 3.43 μm

AT A GLANCE

Temperature Ranges

50 to 400°C (122 to 752°F) (MB 4)
75 to 500°C (167 to 932°F) (MB 5)

Spectral Range

3.43 μm

Optics

3 focusable optics
a = 100 to 142 mm
a = 185 to 390 mm
a = 305 to 1900 mm

REFERENCE NUMBERS

IPE 140/34

Temperature Range	Laser Targeting Light	View Finder
50 to 400°C (122 to 752°F) (MB 4)	3 875 820	3 875 830
75 to 500°C (167 to 932°F) (MB 5)	3 875 800	3 875 810

TECHNICAL DATA¹

Temperature Ranges	50 to 400°C (122 to 752°F) (MB 4)
	75 to 500°C (167 to 932°F) (MB 5)
Spectral Range	3.43 μm

¹ Different from IPE 140

OPTICS

IPE 140/34

Optics	Measuring Distance a [mm]	Spot diameter M [mm]	
		MB 4	MB 5
1-PE	100	3.3	2.1
	114	4.2	2.7
	142	5.9	3.8
2-PE	185	6	3.9
	235	8	5.2
	390	15.2	9.8
3-PE	305	9.6	6.2
	700	26.4	17
	1900	73	47



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