

Phase Change Materials

Phase Change Materials (PCMs) provide advanced thermal protection for products that must be stored within specific temperature ranges during shipping. Whether your products must remain frozen, refrigerated, or at room temperature, Cryopak has PCMs to meet your specific needs.

Advantages:

- ✓ Significantly reduces your box size and weight
- ✓ Available for -20°C , $2-8^{\circ}\text{C}$, $15-30^{\circ}\text{C}$ temperature ranges
- ✓ Non-toxic and non-hazardous
- ✓ Reusable

3 types of PCM



Phase -20™ : Mainly used to keep products frozen. Phase change temperature is -20°C



Phase 5™: Mainly used to keep products refrigerated, but not frozen. Phase change temperature is 5°C



Phase 22™: Mainly used to keep products at room temperature. Phase change temperature is 22°C



One of the unique features of the **Phase 5™** and **Phase 22™** Panels, is the ability to connect panels together to form larger thermal plates, or a protective thermal cube to surround the payload without the need for a payload box.



Item #	Product Name	Dimensions	Weight	#/ case	Case dimensions	Case weight
Phase 5						
FGEL00051	Phase 5 small panels	5.5 x 5.5 x 1.18" 14 x 14 x 3 cm	0.66 lbs 300 g	36	18.9 x 11 x 7.1" 48 x 28 x 18 cm	26 lbs 11.8 kg
FGEL00059	Phase 5 large panels	9.25 x 7 x 0.875" 23 x 18 x 2 cm	1.52 lbs 689 g	20	14.13 x 9.13 x 11.38" 36 x 23 x 28 cm	32.3 lbs 14.7 kg
FGEL00291	Cube 6 panel filled with PCM 5	7.75 x 7.75 x 1" 19.69 x 19.69 x 2.54 cm	1.25 lbs 567 g	6	7.75 x 7.75 x 8.25" 19.69 x 19.69 x 20.96 cm	9 lbs 4.08 kg
FGEL00289	Cube 10 filled with PCM 5	11.75 x 11.75 x 1" 29.85 x 29.85 x 2.54 cm	3.25 lbs 1.47 kg	6	11.75 x 11.75 x 8.25" 29.85 x 29.85 x 20.96 cm	20 lbs 9.07 kg
FGEL00287	Cube 12 panel filled with PCM 5	13.75 x 13.75 x 1" 34.93 x 34.93 x 2.54 cm	4.7 lbs 2.13 kg	6	13.75 x 13.75 x 8.25" 34.93 x 34.93 x 20.96 cm	30 lbs 13.61 kg
Phase 22						
FGEL00052	Phase 22 small panels	5.5 x 5.5 x 1.18" 13.9 x 13.9 x 3 cm	0.66 lbs 300 g	36	18.9 x 11 x 7.1" 48 x 28 x 18 cm	26 lbs 11.8 kg
FGEL00060	Phase 22 large panels	9.25 x 7 x 0.88" 23.5 x 17.8 x 2.24 cm	1.52 lbs 689 g	20	14.13 x 9.13 x 11.38" 36 x 23 x 28 cm	32.3 lbs 14.7 kg
FGEL00292	Cube 6 panel filled with PCM 22	7.75 x 7.75 x 1" 19.69 x 19.69 x 2.54 cm	1.25 lbs 567 g	6	7.75 x 7.75 x 8.25" 19.69 x 19.69 x 20.96 cm	9 lbs 4.08 kg
FGEL00290	Cube 10 panel filled with PCM 22	11.75 x 11.75 x 1" 29.85 x 29.85 x 2.54 cm	3.25 lbs 1.47 kg	6	11.75 x 11.75 x 8.25" 29.85 x 29.85 x 20.96 cm	20 lbs 9.07 kg
FGEL00288	Cube 12 panel filled with PCM 22	13.75 x 13.75 x 1" 34.93 x 34.93 x 2.54 cm	4.7 lbs 2.13 kg	6	13.75 x 13.75 x 8.25" 34.93 x 34.93 x 20.96 cm	30 lbs 13.61 kg
FMIS76000	Phase 22 pouch	4.25 x 5.75" 10.8 x 14.6 cm	0.38 lbs 170 g	60	15.6 x 9.80 x 7.10" 36.9 x 24.9 x 18 cm	19 lbs 8.60 kg
Phase -20						
FGEL00299	Cube 10 panel filled with PCM -20°C	13.75 x 13.75 x 1" 34.9 x 34.9 x 2.54 cm	3.94 lbs 1.80 kg	6	13.75 x 13.75 x 8.25" 34.9 x 34.9 x 21 cm	24 lbs 10.9 kg

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