



FIRING RATING INFORMATION

Opaljet does not have a fire rating certificate.

Opaljet has a polyester base which has been coated with an inkjet receptive layer.

Polyester cannot pass the fire rating because the melting temperature is too high. To pass a Class 1 test, the material is heated with a flame with cotton wool underneath, soaked in alcohol. If the drips ignite the cotton wool, then it fails the test. When burning, polyester gives off mainly CO₂ & water vapour.

Polyester is the chosen base for Pop Up and Banner stands, due to its dimensional stability. Opaljet is usually laminated with a polyester based laminate. Polyester is used to give a matched system - with the same film throughout, for better performance when subjected to spot lights, or when used in Roll Up systems where high tensions occur when the product is rolled up inside the holder.

Of interest to note, is that Opaljet is usually laminated - the fire-rating of the final graphic will be determined by both the Opaljet and the over laminate (Light Crystal Clr125, see table below).

(Source: Kentmere, October 2006, www.kentmere.co.uk)

PROPERTIES		TYPICAL VALUES	UNIT	TEST METHOD
Tensile strength	MD	61	[kg / cm ²]	ASTM-D-882
	TD	68		
Yield		0,739	[dm ² / kg]	ASTM-D-882
Elongation at break	MD	175	[%]	ASTM-D-882
	TD	85		
Coefficient of friction (COF)		<0,40	[-]	ASTM 1894 FILM / FILM
Gloss		7,5	[%]	60° BLACK ASTM-D-2457
Thermal stability	MD	2	[%]	GBC 150°C 30 sec.
	TD	1		
Haze		70	[%]	ASTM 1003
Density		1082	[kg / m ³]	ASTM 1505
Gauge		125	[micron]	NIKON DIGIMICRO
Unit weight		135	[g / m ²]	ASTM-D-882
Bond strength		4-6	[N / 15mm]	GBC
UV Stability		-	[DE]	CIELAB COLOR
Wetting tension		46 - 55	[dynes / cm]	ASTM 2578
Melting point resin		75	[°C]	ASTM-D-3418
Melt index		7	[g / 10 min.]	ASTM-D-1238
Thickness substrate		80	[micron]	NIKON DIGIMICRO
Thickness adhesive		75	[micron]	NIKON DIGIMICRO
Food contact approval		Yes	[-]	FDA

Light Crystal Clr125 - Technical Data Table