

## Ri-Lam C30 & C50 Ultra-clear

**PRODUCT DESCRIPTION / BENEFITS** Ri-Lam C30-C50 Ultra-Clear series is a self-adhesive film for digitally printed images lamination used for ultra-clear windows graphics.

The Ultra-Clear cast vinyl face film, UV stabilised, has an external colour stability up to 8 years. The ultra-clear permanent solvent-based adhesive is compatible with solvent, eco-solvent and latex inks printing, but is not suitable for UV print (silvering). The 36 µm PET liner ensures product ultra-clarity.

All products are REACH & RoHS compliant.

**TYPICAL USE**

- Ultra-Clear windows graphics
- Long term outdoor and indoor lamination film for advertisings made with ultra-Clear Ri-Jet C50 and PET75 Ultra-Clear printing media
- Protect printed media from abrasion and retard colour fading
- Provide homogeneous gloss finishes

**CONSTRUCTION**

- **Face film:** 30 µm ultra-clear cast vinyl film  
50 µm ultra-clear cast vinyl film
- **Adhesive:** permanent solvent-based acrylic
- **Release liner:** 36µm clear PET liner

**Products:**

30 µm Ultra-Clear: code 08109 - **Ri-Lam C30 Ultra-Clear Gloss Perm SB - UV Print N**

50 µm Ultra-Clear: 04015 - **Ri-Lam C50 Ultra-Clear Gloss Perm SB - UV Print N**

**CONVERTING METHOD** Compatible with solvent, eco-solvent and latex inks, not compatible with UV print  
To be laminated with a laminator.

**APPLICATION METHOD / INSTRUCTIONS FOR USE** The printed media to laminate should dry minimum 24h prior to lamination.  
Laminate without tension on the printed media.

**EXPECTED DURABILITY** The expected vertical outdoor durability in Central Europe (zone 1) is 8 years.  
This information is based on real file experience and artificial aging according to ISO 4892-2.  
Note: Exposure to severe temperature and ultra-violet light will cause a quicker deterioration. This applies also to polluted area, high altitude, horizontal applications, and south-facing exposure.

**SHELF LIFE** Shelf life is 2 years, when stored at 23 °C and 50 % relative humidity conditions.  
Higher temperatures and/or humidity levels will reduce product shelf life.

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### 50PHYSICO-CHEMICAL PROPERTIES / TYPICAL VALUES

Face thickness, without adhesive	30 µm 50 µm	ISO 534-80
Face thickness, with adhesive	50 µm 70 µm	ISO 534-80
Tensile strength (machine direction)	> 8 N/cm	ISO 527
Elongation at break (machine direction)	>150%	ISO 527
Fire resistance on aluminium	Self-extinguishing	ISO 3795:1989
Dimensional stability (1 week @70 °C on glass)	0.1 mm	FTM 14
Initial adhesion on glass (20 minutes)	13 N/25mm	FTM 1
Adhesion on glass (24 hours)	16 N/25mm	FTM 1
Final adhesion on glass (1 week)	18 N/25mm	FTM 1
Minimum application temperature	+10 °C	
Service temperature	From -40 °C to +90 °C	
PET liner	36 µm	ISO 534-80
Humidity resistance	No effect	200 hours exposure
Water resistance	No effect	24 hours immersion
Detergent (1% solution)	No effect	24 hours immersion
Isopropyl alcohol / Water (20/80)	No effect	10 minutes immersion

### QUALITY CERTIFICATION



### DISCLAIMER

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