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TO: Trappens
FAO: Paulo
FROM: Ken Craine
DATE: 1/11/06

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PAGES: 1

Dear Paulo

Re:- Technical properties – Circline lamp protection

The material we use to protect the Circlines is FEP (fluoroethylene propylene copolymer specially formulated to shrink onto substrate)

This material has a high light transmission over both the visible and UV spectral range – better than any other plastic used for fragment retention on fluorescent tubes.

The basic physical properties are as follows

| TECHNICAL DATA SUMMARY | | | |
|----------------------------|----------------------|-------------------------------|-----------------------------|
| BEFORE SHRINKING | | AFTER SHRINKING | |
| Shrink temperature | 110°C (Approx.) | Chemical & solvent resistance | Virtually total |
| Shrink ratio | 1:1.35 nominal | Hardness | D55 |
| Shelf life | Infinite | UV resistance | Completely unaffected |
| Max. Storage temperature. | 40°C | Water absorption | 0.01% or less |
| Colour | Transparent | Coefficient of friction | 0.01 |
| Toxicity | Completely non-toxic | Flammability | Non-inflammable (naturally) |
| Working temperature range | -200° to +200°C | Radiation resistance | 1 megarad |
| Length change on shrinking | 0 to + 15% | Melt temp. (for sealing) | 280°C |

Protected Components for
the Chemical Industry

★
CREACO Safebreak®
Version of the Philips
Ecotone

★
Registered in England
No 1735399

We trust this helps

Kind regards

Ken Craine
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