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issued for:

LET IT LIGHT AB

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PRODUCT DECLARATION

We, company OMS, a.s., hereby confirm, that the microprismatic diffusive part of the luminaire FREYN II consist of PMMA (polymethyl methacrylate) AKRYLON XT supplied by POLYCASA, do not pose any risk of physical and/or microbiological contamination and makes it a shatter proof cover of the luminaire, which minimise the risk of breakage. Therefor it is suitable for use in food industry environment and is in conformity with Hazard Analysis and Critical Control Points (HACCP) according to International Featured Standard – IFS Food Version 6.

Datasheet of the diffuser is part of the attachment of this declaration.

29. 5. 2019, Dojč

Ján Očovan
Product Quality Manager



Duly authorized to sign on behalf of OMS company.





Attachment 1. - datasheet of the PMMA diffuser AKRYLON XT:

TECHNICAL DATA SHEET



AKRYLON XT sheet

1. Product identification

AKRYLON XT is the brand name for extruded Polymethyl methacrylate (PMMA) sheets manufactured by POLYCASA.

The AKRYLON XT programme offers solutions to both indoor and outdoor applications.

AKRYLON XT is available in clear and opal white standard products, and a wide range of colours.

AKRYLON XT sheets are produced and tested according to EN ISO 7823-2.

2. Characteristics

AKRYLON XT sheets have good optical properties and a brilliant surface.

AKRYLON XT sheets offer excellent transparency, good mechanical properties, are UV resistant, have very good weathering and ageing resistance and remain colour constant for years.

AKRYLON XT sheets can be used in contact with foodstuffs, as they meet all current European food control legislation.

AKRYLON XT sheets do not contain any toxic materials or heavy metals, which may cause environmental damage or health risks. It is insoluble in water, and not subject to hazardous materials identification.

AKRYLON XT sheets are easy to recycle.

3. Applications

Construction components

- Light domes
- Partition walls
- Door glazing
- Roofing
- 5kylights for caravans

Lighting

- Lighting control lenses
- Domestic light fittings

Engineering components

- Machine housings
- Machine safety covers

Advertising and signage

- Moulded letters
- Store Displays
- Shop fittings
- Illuminated graphics panels

Other applications

- Containers
- Lettering templates
- Solariums (special grade, UV-transmitting)
- Sound walls barrier

4. Fabrication and finishing techniques

AKRYLON XT sheets are easy to handle.

They can be machined using all the usual methods, such as sawing, drilling, polishing etc., and are easy to thermoform. More detailed information on these items can be found in our 'USER GUIDE', further in this brochure.



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TECHNICAL DATA SHEET



AKRYLON XT sheet

5. Technical information

| ERAL | | | |
|---|-------------|-------------------|---|
| Property | Method | Units | AKRYLON XT |
| Density | ISO 1183 | g/cm³ | 1.19 |
| Water absorption 24h/23°C – 50x50x4mm³ | ISO 62 | 96 | 0.2 |
| Forming temperature air pressure | | °C | 140-160 |
| Forming temperature vacuum | | °C | 160-190 |
| Moulding shrinkage | | % | 0.5-0.8 |
| HANICAL | | | |
| Property | Method | Units | AKRYLON XT |
| Tensile strength | ISO 527-2 | MPa | 70 |
| Elongation at break | ISO 527-2 | 96 | 4 |
| Tensile modulus | ISO 527-2 | MPa | 3200 |
| Flexural strength | ISO 178 | MPa | 115 |
| Flexural modulus | ISO 178 | MPa | 3300 |
| Ball indentation hardness | ISO 2039-1 | N/mm ⁴ | 175 |
| impact strength Charpy unnotched | ISO 179-1 | kl/m² | 17 |
| Impact strength Charpy notched | ISO 179-1 | kJ/m² | 2 |
| RMAL. | | | |
| Property | Method | Units | AKRYLON XT |
| Vicat temperature (B 50)* | ISO 306 | °C | 105 |
| Specific heat capacity | IEC 1006 | J/gK | 1.47 |
| Linear thermal expansion | DIN 53752 | K-14x10-5 | 7 |
| Thermal conductivity | DIN 52612 | W/mK | 0.18 |
| ervice temperature continuous use | | ¹C | 70 |
| Max, temperature short term use | | °C | 90 |
| Degradation temperature | | °C | >280 |
| CAL | | | |
| Property | Method | Units | AKRYLON XT |
| Light transmission (3mm) | ISO 13468-1 | 96 | 93 |
| Refractive index | ISO 489 | nD | 1.492 |
| TRICAL | | | |
| Property | Method | Units | AKRYLON XT |
| Surface resistivity | IEC 60093 | Ω | 3x10 ¹⁵ - 3x10 ¹⁶ |
| Volume resistivity | IEC 60093 | Ωκπ | 1x10 ¹³ - 5x10 ¹³ |
| Electrical strength | IEC 60243-1 | kV/mm | 10 |
| Dielectric strength | DIN 53481 | kV/mm | 30 |
| Rielectrical dissipation factor 50 Hz | DIN 53483-2 | | 0.06 |
| Dielectrical dissipation factor T KHz | DIN 53483-2 | | 0.04 |
| ielectrical dissipation factor 1 MHz | DIN 53483-2 | | 0.02 |
| Relative permittivity 50 Hz | DIN 53483-2 | | 2.7 |
| Relative permittivity 1 KHz | DIN 53483-2 | | 3.1 |
| Relative permittivity 1MHz | DIN 53483-2 | | 2.7 |

Note: These technical data of our products are typical ones; the actually measured values are subject to production variations. The particulars given herein are based on our actual knowledge and experience. They do not release the user from the obligation of carrying out own tests and trials due to the abundant factors which may affect processing and application of our products, and they do neither imply any legally binding assurance of certain properties or suitability for specific purposes. It is the user's responsibility to ensure that any protective rights and existing laws and regulations are observed.



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