

Technical films

Lexan® 8A35 | TC 00428

Description: Lexan® 8A35 | TC 00428 is a polycarbonate film, that has a velvet surface on one side and a polished transparent on the other.

Properties: Lexan® 8A35 | TC 00428 offers high temperature resistance, excellent dimensional stability and good printability without treatment beforehand making it suitable for multi-layer printing.

Applications: Lexan® 8A35 | TC 00428 can be used for overlays, floor graphics, high-performance labels and in-mould decoration. Screen printing is possible, if water based or traditional solvent based inks are used as well as UV or infrared drying inks. The velvet texture of Lexan® 8A35 | TC 00428 offers mar resistance and can be used over light emitting devices.

Delivery forms: Lexan® 8A35 | TC 00428 is available as a thermoformed, embossed, die-cut, hydro formed or bended part. Other delivery forms upon customers request.

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| Property | Testmethod | Unit | Value |
|--|-----------------|-----------------------|-------------|
| Tensile strength | ISO 527 | MPa | 65 |
| Tensile modulus | ISO 527 | MPa | 2506 |
| Elongation at break | ISO 527 | % | 100-154 |
| Impact strength, 0,75 mm | ISO 6603-1 | J | 31 |
| Tear strength, initiation | ASTM D1004 | kN/m | 245 |
| Tear strength, propagation | ASTM D1922 | kN/m | 10-20 |
| Puncture resistance | ASTM D3763 | J | 12 |
| Fold endurance 0,25 mm | ASTM D2176-69 | Double folds | 130 |
| Fold endurance 0,50 mm | ASTM D2176-69 | Double folds | 135 |
| Thermal conductivity | ASTM D5470 | W/mK | 0,2 |
| Coefficient of thermal expansion | ISO 11359 | X10 ⁻⁵ /°C | 5,8 |
| Specific heat, 4°C | ASTM E1269 | Kj/Kg-°C | 1,25 |
| Glass transition temperature | ISO 11357 | °C | 153 |
| Vicat softening temperature, 1,8 MPa | ISO 75 modified | °C | 145 |
| Shrinkage, 150°C | ASTM D1204 | % | 1,40 |
| Brittleness temperature | ASTM D746 | °C | -135 |
| Density | ISO 1183 | Kg/m ³ | 1200 |
| Water absorption, 24 h | ISO 62 | % | 0,35 |
| Surface coarseness | ASME B46-1 | µm | 55 |
| Surface energy (1 st /2 nd surface) | ASTM D5946-01 | | 34/34 |
| Surface tension (1 st /2 nd surface) | Dyne Pens | Dyne | 40-42/38-40 |
| Refractive index, 25°C | ASTM D542A | % | 1,6 |
| Light transmission | ASTM D1003 | % | 90 |
| Yellowness | ASTM D1925 | % | 0,9 |
| Haze | ASTM D1003 | % | 42 |
| Gloss, 0,2 – 0,5 mm, 85° (min/max) | ISO 2813 | | 8/19 |

Dr. Dietrich Müller GmbH

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Trademark information: Lexan® is a registered trademark of the company SABIC Innovative Plastics IP BV.

Please note:

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