

ESLON PMMA AC 425 AS

smoke-brown, antistatic, electrostatically dissipative

| Electrical properties | Test method | | | Unit | Value |
|-------------------------------------|--------------|-----------|-----------|-------------------|--------------------|
| Surface resistance | ASTM D-257 | DIN 53482 | IEC 60093 | Ω/\square | $10^6 - 10^7$ |
| Electrostatic discharge | MIL B-81705B | | | s | <0,1 |
| Dielectric constant | ASTM D-150 | DIN 53483 | IEC 60250 | | 3 |
| Physical properties | | | | | |
| Density | ASTM D-792 | DIN 53479 | ISO 1183 | g/cm ³ | 1,19 |
| Water absorption | ASTM D-270 | DIN 53495 | ISO 62A | % | 0,3 |
| Pencil scratch hardness | JIS K5400 | | | | 2H |
| Adhesive force coating | JIS D0202 | | | - | 100/100 |
| Optical properties | | | | | |
| Light transmission | ASTM D-1003 | | DIN 13468 | % | 32 |
| Turbidity value | ASTM D-1003 | | DIN 14782 | % | 3 |
| Refractive index | ASTM D-542 | | ISO 489 | - | 1,49 |
| Image sharpness (DOI) | JIS K7105 | | | % | 90 |
| Mechanical properties | | | | | |
| Tensile strength | ASTM D-638 | DIN 53455 | ISO 527 | Mpa | 74,5 |
| Elongation at break | ASTM D-638 | DIN 53455 | ISO 527 | % | 5 |
| Flexural strength | ASTM D-790 | DIN 53452 | ISO 178 | Mpa | 117,7 |
| Bending modulus | ASTM D-790 | | ISO 178 | | 2900 |
| Compressive strength | ASTM D-695 | | ISO 604 | Mpa | - |
| Impact strength (23°C) Charpy | | | ISO 179 | kJ/m ² | 20,3 |
| Notched impact strength (23°C) Izod | ASTM D-256 | | ISO 180 | J/m | 2,0 |
| Thermal properties | | | | | |
| Heat resistance | ASTM D-648 | DIN 53461 | ISO 75 | °C | 90 |
| Linear coefficient of expansion | ASTM D-696 | | ISO 11359 | mm/mm °C | 7×10^{-5} |
| Thermal conductivity | ASTM C-177 | | | W/mK | 0,21 |
| Self-heating | ASTM C-177 | | | KJ/kgK | 1,47 |
| Heat shrinkage | JIS K6745 | | | % | - |
| Flammability | UL 94 | | | | - |

Unless otherwise stated, all values refer to a panel thickness of 3mm. The values given are average values that are backed up by continuous statistical tests. They serve only as information about our products and are intended as an aid to material selection. They do not constitute a legally binding guarantee of specific properties or suitability for specific applications.