

TECHNYL® A 218 V35

Main properties

Values measured at 23 °C

The values of properties are for natural grade.

| Properties | Standards | Unit | Values | | |
|-------------------|--|------------------|--------------|---------------|------|
| | | | EH 0 – 23 °C | EH 50 – 23 °C | |
| Physical | Water absorption, 24h in water at 23°C | ISO 62 | % | 0.75 | - |
| | Density | ISO 1183-A | g/cm3 | 1.41 | - |
| | Moulding shrinkage longitudinal | RHODIA-EP | % | 0.45 | - |
| | Moulding shrinkage transverse | RHODIA-EP | % | 0.75 | - |
| Mechanical | Tensile Modulus | ISO 527 | MPa | 11400 | 8700 |
| | Yield stress | ISO 527 | MPa | 210 | 150 |
| | Nominal elongation at break | ISO 527 | % | 3 | 4 |
| | Tensile stress at break | ISO 527 | MPa | 210 | 150 |
| | Flexural modulus | ISO 178 | MPa | 9500 | 6800 |
| | Flexural strength | ISO 178 | MPa | 286 | 195 |
| | Charpy notched impact strength | ISO 179/1EA-1993 | kJ/m2 | 13.5 | 18.5 |
| | Charpy notched impact strength ISO179/1A | ISO 179-1982 | kJ/m2 | 12 | 16 |
| | Charpy impact strength | ISO 179/1EU-1993 | kJ/m2 | 95 | 100 |
| | Charpy impact strength ISO 179/1D | ISO 179-1982 | kJ/m2 | 70 | 75 |
| | Izod notched impact strength | ISO 180 | kJ/m2 | 13 | 18 |
| Thermal | Melt temperature | ISO 3146 - C | °C | 263 | - |
| | Temper. of dimensional stability 1,8 MPa | ISO 75-2 | °C | 255 | - |
| | Coef. linear expansion longit. 23°C-85°C | ASTM E 831 | E-5 / °C | 2.2 | - |
| | Flammability UL94 thickness 1,6 mm | ISO 1210/UL 94 | - | HB | - |
| Electrical | Relative permittivity 1MHz | IEC 250 | - | 3.7 | 4 |
| | Dissipation factor 1 MHz | IEC 250 | - | 0.01 | 0.11 |
| | Volume resistivity | IEC 93 | E14.Ohm.cm | 10 | 0.1 |
| | Surface resistivity | IEC 93 | E14.Ohm | 6 | 0.01 |
| | Dielectric strength | IEC 243-1 | kV/mm | 34 | 29 |
| | Comparative tracking index KC | IEC 112 | Volt | 450 | 450 |
| Specific | Limit oxygen index | ISO 4589 | % | 23 | - |

Identification code

>PA66-GF35<

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Engineering Plastics

Avenue Ramboz BP 64 F-69192 Saint-Fons Cedex. Telephone: +33 (0)4 72 89 27 00 Fax: +33(0)4 72 89 27 01

RHODIA ENGINEERING PLASTICS. Société Anonyme au capital de 271 256 400 F - 393 335 104 RCS Lyon