

EUROPROFIL AD, s. Aldanci, MK-7520 Krushevo, R. Macedonia

TECHNICAL CHARACTERISTICS OF FIBERGLASS REINFORCED POLTRUDED RO WITH POLYESTER RESIN

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|----------------------------------|--|--------------------|---|-----|
| Product type | Fiberglass reinforced poltruded rod with epoxy resin: | | | |
| Material | Fiberglass roving ECR 4800tex for poltrusion with Polyester resin | | | |
| Technical properties | | | | |
| | Standard | Unit | Result | |
| Physical Properties | | | | |
| Specific gravity | ASTM D 792 | g/cm ³ | 2,00 | |
| Glass Content (weight) | | % | 80 | |
| Dye penetration test | IEC 61109 | | No dye penetration for 15 minutes (minimum) | |
| Electrical properties | | | | |
| Electrical Strength | DIN 53 481 | KV/mm | 4 - 5 | |
| Surface Resistivity | DIN 53 482 | Ω | 10 ¹² | |
| Volume Resistivity | DIN 53 482 | Ω | 10 ¹⁰ | |
| Dielectric strength | DIN 53 483 | MV/m | 3 | |
| Dielectric Constant | DIN 53 483 | | <5 | |
| Loss Factor | | | 0,01 | |
| Mechanical properties | | | | |
| Flexural Strength | ISO 178 | MPa | 480 | |
| Flexural Modulus | ASTM D 790 | GPa | 20 | |
| Tensile Strength | ISO 3268 | MPa | 480 | |
| Compressive Strength | Longitudinal | ASTM D 695 | MPa | 280 |
| | Transverse | ASTM D 695 | MPa | 140 |
| Thermal Properties | | | | |
| Coefficient of Thermal Expansion | ASTM D 696 | K ⁻¹ | 5,4x10 ⁻⁶ | |
| Thermal Conductivity | ASTM C 117 | W/mK ⁻¹ | 0,3 | |