

Armlen PP GF 30-4HS

A 30% glass fiber, thermostabilized polypropylene. This material displays high mechanical and thermal properties; it may be applied as a substitution of metals, thermosetting polymers and other thermoplastics (polyamides, polyester, ABS plastics) in technical products and speciality electronic goods.

Designed for injection moulding manufacture of various items.

Available in black-brownish color.

| Properties | Test method | Unit | Typical value |
|--|-------------|-------------------|---------------|
| MISCELLANEOUS | | | |
| Density | ISO 1183 | kg/m ³ | 1180 |
| Tensile Strength | ISO 527-1 | MPa | 96 |
| Strain at Break | ISO 527-1 | % | 4.5 |
| Flexural Stress at maximum load | ISO 178 | MPa | 128 |
| Tensile Modulus | ISO 178 | MPa | 6200 |
| Charpy Impact Strength at +23°C (un-notched) | ISO 179-1 | kJ/m ² | 42 |
| Charpy Impact Strength at -45°C (un-notched) | ISO 179-1 | kJ/m ² | 51 |
| THERMAL | | | |
| Melting Point | ISO 11357 | °C | 162 |
| Deflection Temperature at 1.8 MPa load | ISO 75 | °C | 150 |
| PROCESSING | | | |
| Melt Flow Rate (250 °C; 2,16 kg) | ISO 1133 | g/10 min | 5 |
| Melt Temperature | | °C | 240 |
| Mold Temperature | | °C | 60 |
| Moulding Shrinkage, parallel | ISO 294-4 | % | 0.2-0.4 |
| Moulding Shrinkage, normal | ISO 294-4 | % | 0.5-0.7 |
| ELECTROPHYSICAL | | | |
| Specific volume resistivity | IEC 60093 | Ω·m | 1.00+E13 |

Comment:

All processing parameters as well as information on shrinkage specimen should be requested from the manufacturer.

If stored in a dry warehouse – dehydration not required

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