

Armlen PP GF 30-1

A 30% glass fiber 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.

Properties	Test method	Unit	Typical value
MISCELLANEOUS			
Density	ISO 1183	kg/m ³	1120
Tensile Strength	ISO 527-1	MPa	90
Tensile Modulus	ISO 527-1	MPa	5800
Strain at Break	ISO 527-1	%	4
Flexural Stress at maximum load	ISO 178	MPa	120
Flexural Modulus	ISO 178	MPa	5500
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m ²	50
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m ²	47
THERMAL			
Melting Point	ISO 11357	°C	162
Deflection Temperature at 1.8 MPa load	ISO 75	°C	145
PROCESSING			
Melt Flow Rate (230 °C; 2,16 kg)	ISO 1133	g/10 min	6-8
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

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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