

## Armlen PP GF 20-1EX

A 20% glass fiber, extrusion, random-static polypropylene copolymer.

Designed for extrusion of mid-layer in glass fiber reinforced polypropylene pipes (hot and cold water supply system, central heating system, industrial systems; PPR/PPR+GF/PPR).

Available in natural, red, green, blue and grey colors.

Properties	Test method	Unit	Typical value
<b>MISCELLANEOUS</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1040
Tensile Strength	ISO 527-1	MPa	52
Strain at Break	ISO 527-1	%	7.5
Flexural Stress at maximum load	ISO 178	MPa	75
Tensile Modulus	ISO 178	MPa	3480
Charpy Impact Strength at +23°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	65
Charpy Impact Strength at -40°C (un-notched)	ISO 179-1	kJ/m <sup>2</sup>	50
Charpy Impact Strength at +23°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	19
Charpy Impact Strength at -40°C (notched)	ISO 179-1	kJ/m <sup>2</sup>	10
<b>THERMAL</b>			
Melting Point	ISO 11357	°C	145
Deflection Temperature at 1.8 MPa load	ISO 75	°C	115
Coefficient of linear thermal expansion	ISO 11359-2	(10 <sup>-6</sup> )K <sup>-1</sup>	30
<b>PROCESSING</b>			
Melt Flow Rate (250 °C; 2,16 kg)	ISO 1133	g/10 min	0.6
Melt Temperature		°C	230
Mold Temperature		°C	60
Moulding Shrinkage, parallel	ISO 294-4	%	0.3-0.4
Moulding Shrinkage, normal	ISO 294-4	%	0.6-0.8

*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*

*Date of issue 22.03.2019*

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