

#### Datasheet

#### Description:

AKROLEN® PP GFM 25/15 natural (2118) is a 25% glass fibre reinforced, 15% mineral filled polypropylene with good surface, dimensional stability and light inherent color

#### Applications

Applications are mainly thin wall housings for electronic parts in the automotive industry

Typical values	Test specification	Method	Unit	Value d.a.m.
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#### Mechanical Properties

Tensile modulus	1 mm/min	ISO 527-2	MPa	6500
Tensile stress at yield	50 mm/min	ISO 527-2	MPa	75
Elongation at break	50 mm/min	ISO 527-2	%	3,5
Flexural modulus	2 mm/min	ISO 178	MPa	6600
Flexural strength	2 mm/min	ISO 178	MPa	105
Flexural strain at break	2 mm/min	ISO 178	%	3,6
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m <sup>2</sup>	42
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m <sup>2</sup>	45
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m <sup>2</sup>	11
Izod notched impact strength	23°C	ISO 180/1A	kJ/m <sup>2</sup>	10
Ball indentation hardness	358/30	ISO 2039-1	MPa	100

#### Electrical Properties

Volume resistivity		IEC 60093	Ohm x cm	> 2E + 11
CTI	test solution A	IEC 60112		600
Dielectric strength	3 mm	IEC 60243	kV/mm	18

#### Thermal Properties

Melting Point	DSC, 10K/min	DIN EN 11357-1	°C	167
Heat distortion temperature HDT/A	1,8 MPa	ISO 75	°C	150
Heat distortion temperature HDT/B	0,45 MPa	ISO 75	°C	163

#### Flammability

Flammability	1,6 mm	UL 94	class	HB
Burning rate (< 100 mm/min)	> 1 mm thickness	FMVSS 302		+

#### General Properties

Density	23°C	ISO 1183	g/cm <sup>3</sup>	1,21
Content reinforcement/Content Filler		ISO 1172	%	40

#### Rheological Properties

MVR	230/2,16	ISO 1133	cm <sup>3</sup> /10min	13,5
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#### Processing

Molding shrinkage	flow	ISO 294-4	%	0,2
Molding shrinkage	transverse	ISO 294-4	%	0,5