

Compound No.: 8435

## AKROLEN® PP LGF 40 1 black (8435)

PP LGF40

AKROLEN® PP LGF 40 1 black (8453) is a polypropylene Homopolymer with 40% long glass fibre reinforcement which leads to a very high stiffness and strength even at higher temperatures. Furthermore, it is heat stabilised and therefore perfectly suitable for industrial applications as well as for applications in the sports and leisure sector which are exposed to higher temperatures.

# heat stabilised 130 Sports & leisure Properties Modulus Strength Impact 10.800 MPa 160 MPa 81 kJ/m²

#### **Mechanical Properties**

Tensile modulus ISO 527-2	1 mm/min   d.a.m.	10800 MPa
Tensile stress at break ISO 527-2	5 mm/min   d.a.m.	160 MPa
Tensile strain at break ISO 527-2	5 mm/min   d.a.m.	2 %
Charpy impact strength ISO 179-1/1eU	23°C   d.a.m.	81 kJ/m²
Charpy notched impact strength ISO 179-1/1eA	23°C   d.a.m.	35 kJ/m²
Izod impact strength ISO 180/1A	23°C   d.a.m.	58 kJ/m²
Izod notched impact strength ISO 180/1A	23°C   d.a.m.	20 kJ/m²

### **Thermal Properties**

+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)

23°C



ISO 1183

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1,23 g/cm<sup>3</sup>

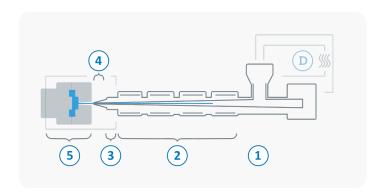
Melting temperature ISO 11357-3	DSC, 10K/min	165 °C
General Properties		
Density	23°C	1.23 g/cm³





#### **Processing**

The values mentioned are recommendations. We only recommend desiccant / dry air dryers or vacuum dryers. Too long a drying time and the resulting residual moisture content below the lower limit can lead to filling problems and surface defects. The specified drying time refers to closed and undamaged bagged material. When processing from previously opened bags or from octabins with polyolefin inliners, a longer drying time may be necessary. It is recommended to check the residual moisture content after the drying process.



D	Drying time	0 - 3 h
	Drying temperature (τ <= -30°C)	80 °C
	Processing moisture	<b>.</b> 0,1 %
1	Feed section	40 - 80 °C
2	Temperature Zone 1 - Zone 4	200 - 255 °C
3	Nozzle temperature	200 - 255 °C
4	Melt temperature	215 - 265 °C
5	Mold temperature	30 - 80 °C
$\ominus$	Holding pressure, spec.	300 - 800 bar
<u>(</u>	Back pressure, spec.	10 - 30 bar
	Injection speed	slow to medium
	Screw speed	5 - 15 m/min