

# Circo® PP 38-LTi-7026 Black

Post-consumer recycled (PCR) polypropylene with peroxide-free increased melt flow and improved impact strength at low temperatures

# **Product Description**

Circo® PP 38-LTi-7026 Black is a compound made from recycled polypropylene with peroxide-free increased melt flow and improved impact strength at low temperatures for injection moulded applications. The compound is supplied in pellet form. The grade is available in black.

## Sustainability

Compound contains post-consumer recycled (PCR) material which is separately collected plastic packaging from households in accordance with EN ISO 14021:2016. The quality and traceability of recycled content is certified by RecyClass.

The material is recyclable. For further information, please contact NG Nordic representative.

# **Typical Properties**

Nominal Value	Units	Test Method
800	MPa	ISO 527
17	MPa	ISO 527
9	%	ISO 527
700	MPa	ISO 178
20	MPa	ISO 178
14	kJ/m2	ISO 179
NB	kJ/m2	ISO 179
4,3	kJ/m2	ISO 179
63	kJ/m2	ISO 179
910	kg/m3	ISO 1183
>60	%	Weight
>70	%	Weight
Impact modifier		
38	g/10min	ISO 1133
Black		
1,8	%	Internal
	800 17 9 700 20 14 NB 4,3 63 910 >60 >70 Impact modifier 38 Black	800 MPa  17 MPa  9 %  700 MPa  20 MPa  14 kJ/m2  NB kJ/m2  4,3 kJ/m2  63 kJ/m2  910 kg/m3  >60 %  >70 %  Impact modifier  38 g/10min  Black

These are typical property values not to be construed as specification limits.

## Processing: Injection moulding

No pre-drying is needed when stored properly.

The injection moulding cylinder temperature range is typically, but not limited to, above 190 °C and under 260 °C. The optimum temperature profile should be determined by the specific needs of the application,







and hopper section is typically 20 °C to 30 °C lower than the nozzle area. Mould temperatures should also be matched to the application, typically between 10 °C and 65 °C.

Injection pressure depends on the application. Injection speed profile should be matched to the design, relatively fast injection is preferred. Holding pressure and cushion should be tested with the design; the level of typical packing pressure is about 75% of maximum injection pressure. The pressure should be held until the gate is frozen.

Plasticization speed can be quite fast, and back pressure should be matched per case. During the production pause, lower the melt temperatures; after reheating, purge sufficiently when starting the operation again.

### Features

- Increased melt flow
- Peroxide-free
- Impact modified for low temperatures
- Resistant to cold temperatures

## **Applications**

Products used at low temperatures:

- Consumer goods
- Construction materials
- **Electrical and Electronics**

## **Further Information**

#### Certificates

Quality Management System Environmental Management System Occupational Health and Safety System ISO 45001:2018 No. 5051-11 RecyClass Recycling Process

ISO 9001:2015 No. 1111-16 ISO 14001:2015 No. 1110-17 EN 15343



### Health and Safety

Material is based on post-consumer recycled plastic. Please verify that use of PCR based materials is permitted in your products.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

#### Storage

The granulate is packed in big bags or bulk containers.

Material should be stored in dry conditions at normal temperatures and protected from UV-light. If it is stored under certain conditions, i.e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use.

## Disclaimer

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

The suitability of the material for planned use should be always verified by the customer. NG Nordic is reporting these values and guidelines based on its own knowledge; updates may occur without notice. Please verify data accuracy with NG Nordic.

#### Company Information

For further information, please visit: www.circoplastics.com



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