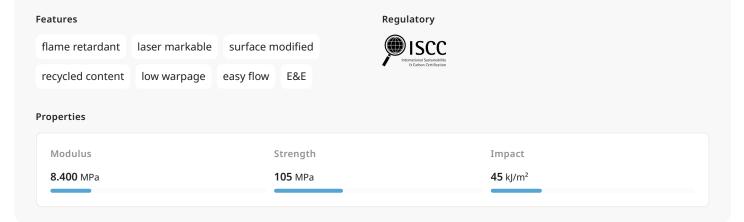


Compound No.: null

# AKROMID® NEXT B28 GM 15/15 1 FR black (8750BMBCI)

PA6 (GF15+GB15) FR(40)

AKROMID® B28 GM 15/15 1 FR black (8750BMBCI) is a flame retardant PA6, reinforced with 15% glass fibres and 15% glass beads. The flame retardant system is free of halogens, red phosphorus, PFAS and melamine. Due to its good flowability, it is characterised by easy processability as well as good surface properties. The product is suitable for enclosure applications in the E&E industry due to its low warpage, high stiffness and strength. This grade is excellent for laser marking. The material is certified according to ISCC PLUS. 90 % of the fossil raw materials required for manufacturing this product were replaced by sustainable biomass-balanced PA and FR (Yallocation factor).



#### Sustainability

Allocation factor only valid for ISCC PLUS/REDcert <sup>2</sup> certified products	90 %
Recycled content	15 %

### **Mechanical Properties**

Tensile modulus ISO 527-2	1 mm/min   d.a.m. 1 mm/min   conditioned	8400 MPa 5200 MPa
Tensile stress at break ISO 527-2	5 mm/min   d.a.m. 5 mm/min   conditioned	105 MPa 65 MPa
Tensile strain at break ISO 527-2	5 mm/min   d.a.m. 5 mm/min   conditioned	2,7 % 4,5 %



Compound No.: null

Charpy impact strength	23°C   d.a.m.	45 kJ/m²
ISO 179-1/1eU	23°C   conditioned	40 kJ/m²
	-30°C   d.a.m.	40 kJ/m²
	-30°C   conditioned	35 kJ/m²
Charpy notched impact strength ISO 179-1/1eA	23°C   d.a.m.	7 kJ/m²

# **Thermal Properties**

200 °C
217 °C
102 °C
220 °C

# **Flammability**

0,8 mm Wall thickness	V-0 Class
1,6 mm Wall thickness	V-0 Class
3,2 mm Wall thickness	V-0 Class
0,8 mm Wall thickness	960 °C
1,6 mm Wall thickness	960 °C
3,2 mm Wall thickness	960 °C
1,6 mm Wall thickness	775 °C
> 1 mm Thickness	+
	1,6 mm Wall thickness 3,2 mm Wall thickness 0,8 mm Wall thickness 1,6 mm Wall thickness 3,2 mm Wall thickness

# **General Properties**

Density	23°C	1,44 g/cm³
ISO 1183	23 C	1,44 g/ciii

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



Compound No.: null

Humidity absorption ISO 1110	70°C, 62% r.H.	1,4 - 1,6 %
Molding shrinkage	flow	0,7 - 0,9 %
ISO 294-4	transverse	0,8 - 1,0 %

# **Electrical Properties**

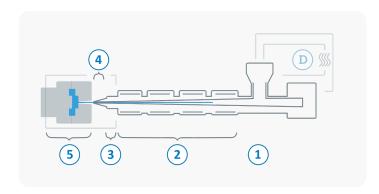
Comparative tracking index	Test liquid A	600 V
IEC 60112	rest liquid //	000 1





#### **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	2 - 4 h
	Drying temperature (τ <= -30°C)	80 °C
	Processing moisture	0,02 - 0,08 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	220 - 280 °C
3	Nozzle temperature	240 - 280 °C
4	Melt temperature	240 - 280 °C
5	Mold temperature	60 - 100 °C
$\ominus$	Holding pressure, spec.	300 - 800 bar
$\bigcirc$	Back pressure, spec.	30 - 100 bar
	Injection speed	medium
	Screw speed	5 - 10 m/min