

# OMIKRON BM 50 NERO

Polypropylene Homopolymer  
TECNOPOL

Message:

OMIKRON BM 50 is an homopolymer polypropylene reinforced with 20% of glass fibre for injection moulding, high processability. It is available in black version. Coloured on demand.

OMIKRON BM 50 is suitable for moulding of items requiring stiffness and impact resistance. It's normally used in automotive industry , for electrical parts and where high thermal properties and low shrinkage are demands.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Rigid, good		
	Homopolymer		
	Impact resistance, good		
	Workability, good		
	Low shrinkage		
Appearance	Black		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	7.0	kJ/m <sup>2</sup>	ISO 180
Aging	Nominal Value	Unit	Test Method
Accelerated Aging (150°C)	> 6.3	day	Internal method
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	138	°C	ISO 75-2/A
Vicat Softening Temperature	125	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	VW TL1010
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	

Drying Time	2.0	hr
Rear Temperature	220 - 250	°C
Middle Temperature	220 - 250	°C
Front Temperature	220 - 250	°C
Mold Temperature	40.0 - 60.0	°C
Injection Pressure	9.00 - 11.0	MPa
Injection Rate	Moderate	
Back Pressure	0.500 - 1.00	MPa
Injection instructions		

Post Pressure: 60 - 80 bar

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

