

OMIKRON GM 51 K NERO

Polypropylene Homopolymer
TECNOPOL

Message:

OMIKRON GM 51 K is an homopolymer polypropylene filled with 20% of talc for injection moulding, high processability. It is available in black version. Coloured on demand.
OMIKRON GM 51 K is suitable for moulding of items requiring stiffness and dimensional stability well as good aesthetic.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Homopolymer		
	Workability, good		
	Excellent appearance		
Appearance	Black		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	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)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	3.0	kJ/m ²	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)	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	

Drying Time	2.0	hr
Rear Temperature	210 - 260	°C
Middle Temperature	210 - 260	°C
Front Temperature	210 - 260	°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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