

OMIKRON TM 91 NERO

Polypropylene Homopolymer
TECNOPOL

Message:

OMIKRON TM 91 is an homopolymer polypropylene filled with 40% of talc for injection moulding, high processability. It is available in black version. Coloured on demand.

OMIKRON TM 91 is suitable for moulding of items requiring stiffness and dimensional stability well. It's normally used in automotive industry , for electrical parts and where high thermal properties and low shrinkage are demands

General Information			
Filler / Reinforcement	Talc filler, 40% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	Homopolymer		
	Workability, good		
	Low shrinkage		
Appearance	Black		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	12	%	ISO 527-2
Flexural Modulus	3800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	2.5	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)	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	95.0	°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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