

OMIKRON HR 50 NAT

Polypropylene Homopolymer
TECNOPOL

Message:

OMIKRON HR 50 is an homopolymer polypropylene filled with 20% of talc for injection moulding, high processability. It is available in natural version. Coloured on demand.
OMIKRON HR 50 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	Available colors		
	Natural color		
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)	13	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Break)	20	%	ISO 527-2
Flexural Modulus	2600	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)	70.0	°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 - 240	°C
Middle Temperature	210 - 240	°C
Front Temperature	210 - 240	°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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