

NILENE® P3 K20VA

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 20% glass fibers reinforced chemically coupled, low flow, good mechanical properties.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Chemical coupling		
	Homopolymer		
	Low liquidity		
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)	3.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.85 - 0.95	%	Internal method
Flow direction	0.35 - 0.65	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/1
Tensile Strain (Break)	10	%	ISO 527-2/50
Flexural Modulus ¹	4500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	142	°C	ISO 75-2/B
1.8 MPa, not annealed	130	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	135	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (2.00 mm)	< 100	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index	21	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ³ (600°C)	20	%	ISO 3451

Injection	Nominal Value	Unit
Processing (Melt) Temp	220 - 250	°C
Mold Temperature	50.0 - 70.0	°C
Injection Rate	Moderate	
Injection instructions		
Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr		
NOTE		
1.	1.0 mm/min	
2.	US FMVSS302	
3.	1 hr	

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Recommended distributors for this material

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