

NILENE® P3 K25VA

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 25% glass fibers reinforced chemically coupled, low flow, good mechanical properties.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Features	Chemical coupling		
	Homopolymer		
	Low liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	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	0.75 - 0.95	%	Internal method
Flow direction	0.25 - 0.45	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.2	%	ISO 527-2/50
Flexural Modulus ¹	4800	MPa	ISO 178
Flexural Stress ²	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/A50
--	128	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	25	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ³ (2.00 mm)	< 100	mm/min	ISO 3795

Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index	20	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ⁴ (600°C)	25	%	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.	1.0 mm/min		
3.	US FMVSS302		
4.	1 hr		

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