

NILENE® P K50VA S

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 50% glass fibers reinforced chemically coupled, heat stabilized, good mechanical properties, flame rating UL94HB.

General Information			
UL YellowCard	E143048-100035157		
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight		
Additive	heat stabilizer		
Features	Chemical coupling		
	Homopolymer		
	Thermal Stability		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.40 - 0.55	%	Internal method
Flow direction	0.20 - 0.35	%	Internal method
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1
Tensile Stress (Break)	110	MPa	ISO 527-2/50
Tensile Strain (Break)	2.7	%	ISO 527-2/1
Flexural Modulus ¹	7700	MPa	ISO 178
Flexural Stress ²	138	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	75	J/m	ASTM D256
23°C	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	150	°C	ISO 75-2/A
Vicat Softening Temperature			
--	156	°C	ISO 306/A50
--	144	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method

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			UL 94
0.750 mm	HB		UL 94
1.50 mm	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	550	°C	IEC 60695-2-13
Oxygen Index	21	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ⁴ (600°C)	50	%	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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