

NILENE® P K40T

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 40% talcum filled flame rating UL94 HB.

General Information			
UL YellowCard	E143048-100035161		
Filler / Reinforcement	Talc filler, 40% filler by weight		
Features	Homopolymer		
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)	15	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.90	%	Internal method
Flow direction	0.90	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	31.0	MPa	ISO 527-2/50
Fracture	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.5	%	ISO 527-2/50
Fracture	25	%	ISO 527-2/50
Flexural Modulus ¹	4000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-20°C	20	J/m	ASTM D256
23°C	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	95.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE - Flow	6.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 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 ² (600°C)	40	%	ISO 3451
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Fast		
Injection instructions			
Pre-heat Temperature: 80 to 100°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	1 hr		

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