

NILENE® P K20T

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 20% talcum filled flame rating UL94 HB.

General Information			
UL YellowCard	E143048-100035158		
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Homopolymer		
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)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.1	%	Internal method
Flow direction	1.1	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Flexural Stress ²	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	125	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow	6.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ³ (600°C)	20	%	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.	50 mm/min	
3.	1 hr	

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