

NILENE® E10 K40T

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer 40% talcum filled, medium flow.

General Information			
Filler / Reinforcement	Talc filler, 40% filler by weight		
Features	Copolymer		
	Medium liquidity		
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)	10	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 Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain (Break)	25	%	ISO 527-2/50
Flexural Modulus ¹	2900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	30	J/m	ASTM D256
0°C	40	J/m	ASTM D256
23°C	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	135	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ²	80.0	°C	IEC 60216
-- ³	100	°C	IEC 60216
Vicat Softening Temperature			
--	152	°C	ISO 306/A50
--	85.0	°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
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 - 230	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Moderate		
Injection instructions			
Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	20,000 hr		
3.	Short term		

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