

NILENE® E15 K15TE

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer 15% mineral filled, medium high flow, designed for aesthetical applications.

General Information			
Filler / Reinforcement	Mineral filler, 15% filler by weight		
Features	Copolymer		
	Medium liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.01	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	1.2 - 1.4	%	Internal method
Flow direction	1.2 - 1.4	%	Internal method
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2/1
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Break)	35	%	ISO 527-2/50
Flexural Modulus ¹	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	60	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	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/A50
--	75.0	°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 ² (600°C)	15	%	ISO 3451
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°C Pre-heat Time: 1 hr

NOTE

1.	1.0 mm/min
2.	1 hr

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