

NILENE® E15 K20TE

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer 20% mineral filled, medium high flow, designed for aesthetical applications.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Copolymer		
	Medium liquidity		
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)	15	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)	27.0	MPa	ISO 527-2/50
Tensile Strain (Break)	30	%	ISO 527-2/50
Flexural Modulus ¹	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-20°C	30	J/m	ASTM D256
0°C	40	J/m	ASTM D256
23°C	50	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			
--	150	°C	ISO 306/A50
--	78.0	°C	ISO 306/B50
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
Burning Rate ² (2.00 mm)	< 100	mm/min	ISO 3795
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ³ (600°C)	20	%	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°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	US FMVSS302		
3.	1 hr		

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