

NILENE® E5

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer medium low flow.

General Information			
Features	Copolymer		
	Low liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.4 - 1.8	%	Internal method
Flow direction	1.4 - 1.8	%	Internal method
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Break)	80	%	ISO 527-2/50
Flexural Modulus ¹	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature	75.0	°C	ISO 306/B50
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
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr			

NOTE

1. 1.0 mm/min

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