

NILSAN S MR K17V

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

Message:

ABS 17% glass fibres reinforced, good dimensional stability, low shrinkage, good mechanical properties.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 17% filler by weight		
Features	Good dimensional stability		
	Low shrinkage		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.30 - 0.80	%	Internal method
Flow direction	0.10 - 0.30	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.10	%	ISO 62
Saturated, 23°C	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ISO 527-2/1
Tensile Stress (Break)	78.0	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus ¹	5200	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 ² (1.8 MPa, Unannealed)	96.0	°C	ISO 75-2/A
Continuous Use Temperature ³	75.0	°C	IEC 60216
Vicat Softening Temperature			
--	108	°C	ISO 306/A50
--	104	°C	ISO 306/B50
Ball Pressure Test (100°C)	Pass		
CLTE - Flow (-30 to 30°C)	4.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method

Glow Wire Ignition Temperature	550	°C	IEC 60695-2-13
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ⁴ (750°C)	17	%	ISO 3451
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	210 - 240	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Pre-heat Temperature: 70 to 80°CPre-heat Time: 3 hrs			
NOTE			
1.	1.0 mm/min		
2.	120°C/hr		
3.	20,000 hr		
4.	1 hr		

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