

NILSAN S GP

Acrylonitrile Butadiene Styrene

Taro Plast S.p.A.

Message:

ABS very high flow grade designed for low thickness walls, good gloss.

General Information			
UL YellowCard	E143048-100035162		
Features	Highlight		
	High liquidity		
Uses	Thin wall parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	35	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.60 - 0.70	%	Internal method
Flow direction	0.60 - 0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	46.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 20	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress ²	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	85.0	°C	ISO 75-2/A
Continuous Use Temperature	60.0	°C	IEC 60216
Vicat Softening Temperature			
--	105	°C	ISO 306/A50
--	95.0	°C	ISO 306/B50
Ball Pressure Test (75°C)	Pass		IEC 60695-10-2
CLTE - Flow (-30 to 30°C)	9.0E-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

Flame Rating (1.50 mm)	HB	UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C IEC 60695-2-12
Oxygen Index	< 21	% ASTM D2863
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 instructions		
Pre-heat Temperature: 70 to 80°CPre-heat Time: 3 hrs		
NOTE		
1.	1.0 mm/min	
2.	1.0 mm/min	
3.	120°C/hr	

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