

NILSAN A GP

Acrylonitrile Styrene Acrylate
Taro Plast S.p.A.

Message:
ASA high flow grade designed for low thickness walls and parts with big dimensions.

General Information			
Features	High liquidity		
Uses	Thin wall parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ISO 1133
Molding Shrinkage - Flow (23°C, 3.20 mm)	0.40 - 0.70	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.45	%	ISO 62
Saturated, 23°C	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/50
Tensile Stress (Yield)	51.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.3	%	ISO 527-2/50
Flexural Modulus ¹	2500	MPa	ISO 178
Flexural Stress ²	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	96.0	°C	ISO 75-2/A
Continuous Use Temperature ³	85.0	°C	IEC 60216
Vicat Softening Temperature	97.0	°C	ISO 306/B50
Ball Pressure Test (75°C)	Pass		IEC 60695-10-2
CLTE - Flow	8.0E-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
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	

Drying Temperature	70.0 - 80.0	°C
Drying Time	1.0	hr
Processing (Melt) Temp	240 - 280	°C
Mold Temperature	40.0 - 80.0	°C
Injection Rate	Fast	

Injection instructions

Pre-heat Temperature: 70 to 80°C Pre-heat Time: 3 hrs

NOTE

- 1.0 mm/min
- 1.0 mm/min
- Short term

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