

POLIMAXX GA300

IRPC Public Company Limited - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

GA300 is an ABS grade with a high flowability feature. It is designed for injection molding processing such as appliance & electronic parts, household and sanitary ware.

Industry:

- Appliance & Electronic Parts
- Large Air Conditioner Parts
- Washing Machine Parts
- Bathroom Shelves

Product Feature:

- High Flowability
- Good Impact Strength
- Glossy Finish Parts

Regulation Compliance:

- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- UI Yellow Caard: E132283

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Good Impact Resistance • High Flow • High Gloss
Uses	• Appliance Components • Household Goods • Electrical/Electronic Applications • Sanitary Products
Agency Ratings	• EC 1907/2006 (REACH) • EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage	0.40 to 0.60	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield, 0.126 in)	6830	psi	ASTM D638
Tensile Elongation ³ (Break, 0.126 in)	20	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (0.252 in)	341000	psi	ASTM D790
Flexural Strength ⁴ (0.252 in)	9390	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.252 in)	4.4	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 0.252 in)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.252 in)	185	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information



Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	374 to 464	°F
Middle Temperature	374 to 464	°F
Front Temperature	374 to 464	°F
Mold Temperature	122 to 176	°F
Injection Rate	Slow-Moderate	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 23°C
- ³ 0.20 in/min
- ⁴ 0.098 in/min

