

POLIMAXX GA800

IRPC Public Company Limited - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

GA800 is a general purpose ABS grade with glossy finish and impact resistance. It is designed for injection molding processing such as appliance & electronic parts, automotive parts, household goods and toys.

Industry:

- Appliance & Electronic Parts
- Interior Parts
- Housewares
- Sanitary Ware
- Toys

Product Feature:

- High Impact Strength
- High Stiffness
- Glossy Finish Parts

Regulation Compliance:

- FDA US 21 CFR 181.32
- Commission Regulation (EU) 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- UL Yellow Card: E132283
- EN 71-3: Safety of Toys

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable • General Purpose	• Good Gloss • High Impact Resistance	• High Stiffness
Uses	• Appliance Components • Automotive Applications • Electrical/Electronic Applications	• General Purpose • Household Goods • Sanitary Products	• Toys
Agency Ratings	• EC 1907/2006 (REACH) • EN 71-3	• EU 2011/65/EC • EU No 10/2011	• FDA 21 CFR 181.32
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)	20	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)	7110	psi	ASTM D638
Tensile Elongation ³ (Break, 0.126 in)	20	%	ASTM D638
Flexural Modulus - 1% Secant ⁴ (0.252 in)	356000	psi	ASTM D790
Flexural Strength ⁴ (Yield, 0.252 in)	9960	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.252 in)	4.8	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 (66 psi, Unannealed, 0.252 in)	187	°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			

