

POLIMAXX 121PC

 IRPC Public Company Limited - *Styrene Acrylonitrile*
General Information
Product Description

121PC is a general purpose grade of acrylonitrile styrene resin for injection molding process with blue color and clarity appearance. It is recommended for household products (sanitary ware), electrical appliances (electric fan), cosmetic packaging, and automotive parts (lamp).

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable	• General Purpose	• Good Clarity
Uses	• Appliance Components • Automotive Applications	• Cosmetic Packaging • Electrical/Electronic Applications	• Household Goods
RoHS Compliance	• RoHS Compliant		
Appearance	• Blue		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	10200	psi	ASTM D638
Flexural Modulus (73°F)	540000	psi	ASTM D790
Flexural Strength (Yield, 73°F)	17100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	0.40	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 73°F, 0.250 in)	93		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	178	°F	ASTM D648
Vicat Softening Temperature	226	°F	ASTM D1525

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 3.0	hr
Processing (Melt) Temp	410 to 500	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

