

# POLIMAXX HI630

High Impact Polystyrene  
IRPC Public Company Limited

Message:

HI630 is a high gloss high impact grade of polystyrene resin for injection molding applications requiring superior impact and gloss. It is recommended for electrical appliances (air conditioning parts, TV), household products, sanitary ware, toys and etc.

General Information			
UL YellowCard	E132283-100955312		
Features	High Gloss		
	High Impact Resistance		
Uses	Appliance Components		
	Electrical/Electronic Applications		
	Toys		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale, 23°C, 6.35 mm)	68		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	25.5	MPa	ASTM D638
Flexural Modulus (23°C)	2350	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	45.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	90.0	°C	ASTM D648
Vicat Softening Temperature	95.0	°C	ASTM D1525 <sup>1</sup>
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°)	98		ASTM D523
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 240	°C	
NOTE			
1.	Loading 1 (10 N)		

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