

# POLIMAXX HI650

High Impact Polystyrene  
IRPC Public Company Limited

Message:

HI650 is a high impact grade of polystyrene resin for injection molding with good impact resistance and easy flow. It is recommended for electrical appliances (air conditioning parts, TV), household products, sanitary ware, and toys. It also meets the requirement of food contact regulation

General Information			
UL YellowCard	E132283-222126		
Features	Food Contact Acceptable		
	Good Flow		
	High Impact Resistance		
Uses	Appliance Components		
	Electrical/Electronic Applications		
	Household Goods		
	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)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale, 23°C, 6.35 mm)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	22.8	MPa	ASTM D638
Flexural Modulus (23°C)	2280	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	44.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 5.84 mm)	110	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	96.0	°C	ASTM D1525
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	HB	UL 94	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 240	°C	

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