

POLIMAXX HI830

High Impact Polystyrene
IRPC Public Company Limited

Message:

HI830 is a high impact grade of polystyrene resin for extrusion process with good impact resistance. It is recommended for food packaging, vacuum sheet, household products, and sanitary ware. It also meets the requirement of food contact regulation.

General Information			
UL YellowCard	E132283-222127		
Features	Food Contact Acceptable		
	High Impact Resistance		
Uses	Food Packaging		
	Household Goods		
	Sheet		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale, 23°C, 6.35 mm)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	21.4	MPa	ASTM D638
Flexural Modulus (23°C)	2140	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	41.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	120	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 (3.00 mm)	HB	UL 94	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 240	°C	

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