

POLIMAXX GP150

General Purpose Polystyrene
IRPC Public Company Limited

PROSPECTOR®

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Technical Data

Product Description

GP150 is a general purpose grade of polystyrene resin for injection molding process with easy flow and good clarity. It is suitable for food packaging, electrical appliances (such as refrigerator food tray), household products, sanitary ware and etc. It also meets the requirement of food contact regulation.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E132283-222120
Search for UL Yellow Card	• IRPC Public Company Limited
Availability	• Asia Pacific • Europe • North America
Features	• Food Contact Acceptable • Good Flow • General Purpose • Medium Clarity
Uses	• Appliance Components • Food Packaging • Electrical/Electronic Applications • General Purpose • Household Goods
Agency Ratings	• FDA 21 CFR 177.1640
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	6300 psi	43.4 MPa	ASTM D638
Flexural Modulus (73°F (23°C))	459000 psi	3170 MPa	ASTM D790
Flexural Strength (Yield, 73°F (23°C))	12000 psi	82.8 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness M-Scale, 73°F (23°C), 0.250 in (6.35 mm)	71	71	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	199 °F	93.0 °C	ASTM D648
Vicat Softening Temperature	212 °F	100 °C	ASTM D1525 ⁴
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	HB	HB	UL 94
Injection	Nominal Value (English)	Nominal Value (SI)	Test Method
Processing (Melt) Temp	356 to 464 °F	180 to 240 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Loading 1 (10 N)

