POLIMAXX 1102H

IRPC Public Company Limited - *Polypropylene Homopolymer*

General Information

Product Description

1102H is a general purpose Polypropylene Homopolymer (PP) with the characteristic of good stiffness and good processability. It is designed for extrusion processing such as sheet thermoforming (tray, cup, corrugated sheet), blow molding (bottle).

Industry:
- Thermoforming Packaging
- Extrusion Blow Molding (EBM)
- Stationery

Product Feature:
- Good Stiffness
- Good Processability
- Oderless

Regulation Compliance:
- FDA US 21 CFR 177.1520
- Commission Regulation (EU) No. 10/2011
- RoHS Directive 2011/65/EU
- REACH Regulation (EC) No. 1907/2006
- Halal Certificate

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Food Contact Acceptable • General Purpose	• Good Processability • Good Stiffness	• Homopolymer • Odorless
Uses	• Bottles • Corrugated Sheet • Cups	• Packaging • Sheet • Stationary Supplies	• Thermoforming Applications • Trays
Agency Ratings	• EC 1907/2006 (REACH) • EU 2011/65/EC	• EU No 10/2011 • FDA 21 CFR 177.1520	
RoHS Compliance	• RoHS Compliant		
Processing Method	• Blow Molding	• Sheet Extrusion	• Thermoforming

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity [2]	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage	0.70 to 1.3	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield, 0.126 in)	5370	psi	ASTM D638
Tensile Elongation [3] (Yield, 0.126 in)	10	%	ASTM D638
Flexural Modulus - 1% Secant [4] (0.126 in)	232000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.126 in)	0.84	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 0.126 in)	107		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	230	°F	ASTM D648

Processing Information

Extrusion	Nominal Value	Unit

Cylinder Zone 1 Temp.	356 to 410 °F
Cylinder Zone 2 Temp.	356 to 410 °F
Cylinder Zone 3 Temp.	356 to 410 °F
Cylinder Zone 4 Temp.	356 to 410 °F
Cylinder Zone 5 Temp.	356 to 410 °F
Die Temperature	374 to 410 °F

Notes

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

[2] 23°C

[3] 2.0 in/min

[4] 0.051 in/min