POLIMAXX 2500H

IRPC Public Company Limited - *Polypropylene Impact Copolymer*

General Information

Product Description

2500H is a Polypropylene Impact Copolymer (ICPP) with the characteristic of super high impact strength (Not Break). It is designed for extrusion processing such as sheet thermoforming (Tray, cup, corrugated sheet), automotive parts (Exterior and interior parts).

Industry:

- Automotive Parts
- Exterior & Interior Parts
- Thermoforming Packaging
- Extrusion Blow Molding (EBM)
- Stationery

Product Feature:

- Super High Impact Strength
- Good Processability

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	• Good Processability	• High Impact Resistance	• Impact Copolymer
Uses	• Automotive Applications • Corrugated Sheet • Cups	• Packaging • 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	• 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	0.80 to 1.5	%	Internal Method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield, 0.126 in)	3630	psi	ASTM D638
Tensile Elongation [3] (Yield, 0.126 in)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant [4] (0.126 in)	160000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-4°F, 0.126 in	1.8	ft·lb/in	
73°F, 0.126 in	No Break		
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 0.126 in)	78		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (66 psi, Unannealed, 0.126 in)	198 °F	ASTM D648

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	356 to 392	°F
Cylinder Zone 2 Temp.	356 to 392	°F
Cylinder Zone 3 Temp.	356 to 392	°F
Cylinder Zone 4 Temp.	356 to 392	°F
Cylinder Zone 5 Temp.	356 to 392	°F
Die Temperature	374 to 392	°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